JVC

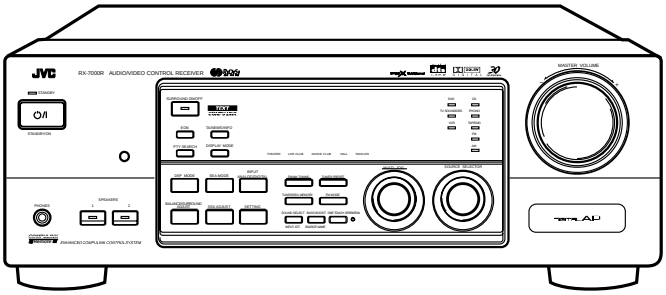
SERVICE MANUAL

AUDIO/VIDEO CONTROL RECEIVER

RX-7000RBK

Area Suffix

E ···· Continental Europe
EN ···· Northern Europe



digital AP

TEXT COMPU LINK

COMPU LINK Remote

3D-PHONIC

MPEG Multichannel

DIGITAL dts SURROUND

DOLBY DIGITAL

RIDISI

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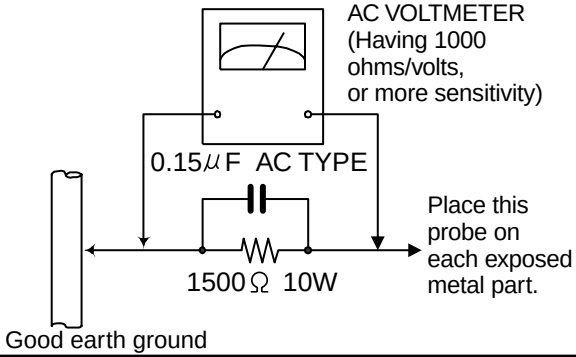
No.20846
Jul. 2000

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer`s warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet , particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to eachexposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. voltage measured Any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

Disassembly method

■Removing the top cover (See Fig.1)

1. Remove the four screws A attaching the top cover on both sides of the body.
2. Remove the three screws B on the back of the body.
3. Remove the top cover from behind in the direction of the arrow while pulling both sides outward.

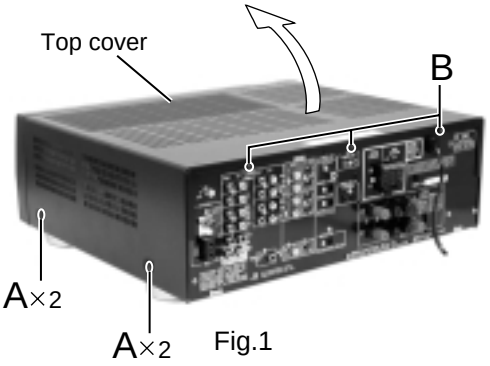


Fig.1

■Removing the front panel assembly (See Fig.2 and 3)

・Prior to performing the following procedure, remove the top cover.

1. Disconnect the card wire from connector CN400 on the main board and CN402 on the power supply board in the front panel assembly.
2. Cut off the tie band fixing the harness.
3. Disconnect the harness from connector CN202 on the video board.
4. Remove the three screws C attaching the front panel assembly.
5. Remove the five screws D attaching the front panel assembly on the bottom of the body. Detach the front panel assembly toward the front.

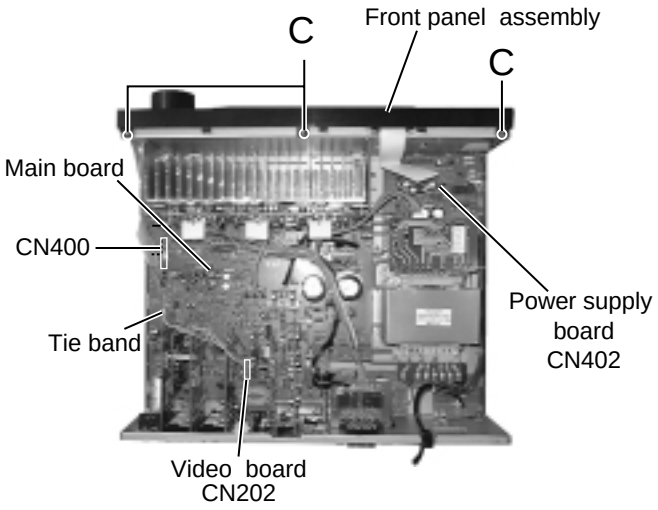


Fig.2

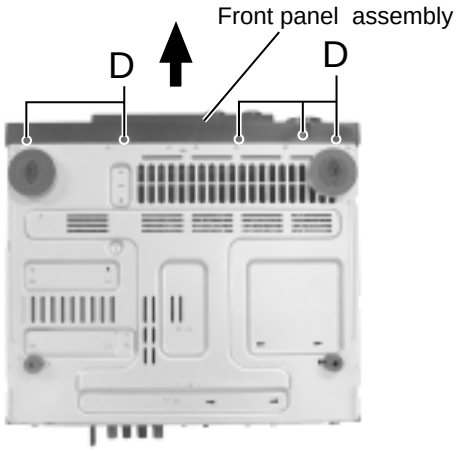


Fig.3

■Removing the rear panel (See Fig.4)

・Prior to performing the following procedure, remove the top cover.

1. Remove the power cord stopper from the rear panel by moving it in the direction of the arrow.
2. Remove the twenty-six screws E attaching the each boards to the rear panel on the back of the body.
3. Remove the three screws F attaching the rear panel on the back of the body.

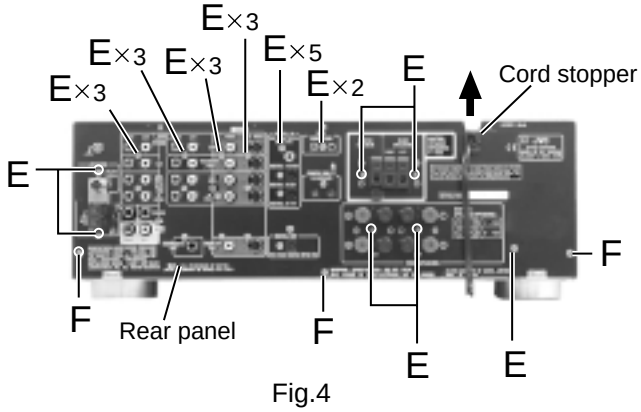


Fig.4

■Removing each board connected to the rear side of the main board

(See Fig.5 to 9)

・Prior to performing the following procedure, remove the top cover and the rear panel.

1. Cut off the tie band fixing the harness.
2. Disconnect the harness from connector CN202 on the video board.
3. Disconnect the tuner board from connector CN101, CN102 on the main board.
4. Disconnect the SEA board and the audio board from connector CN452, CN301and CN302 on the main board.
5. Disconnect the V-audio board from connector CN303 on the main board.
6. Disconnect the relay board 4.Then, disconnect the video board and the S-video board from connector CN201 and CN241 on the main board.
7. Disconnect the DSP board from connector CN501 and CN601 on the main board while removing the DSP board from the bracket fixing the lower part of the DSP board at the same time.
8. Disconnect the compulink board from connector CN255 on the main board.

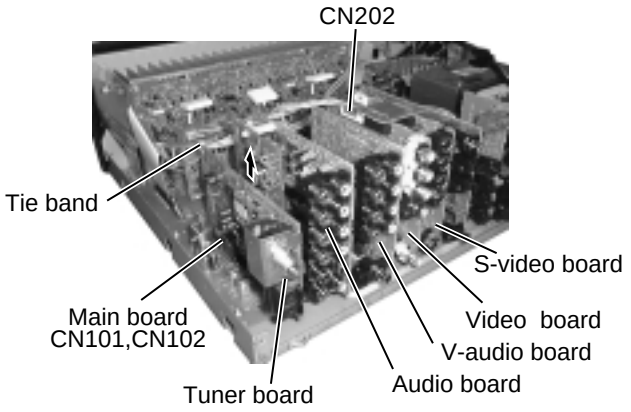


Fig.5

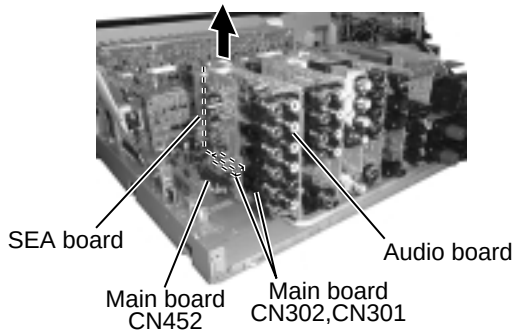


Fig.6

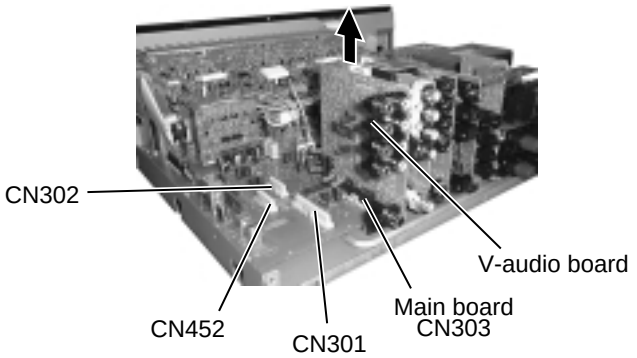


Fig.7

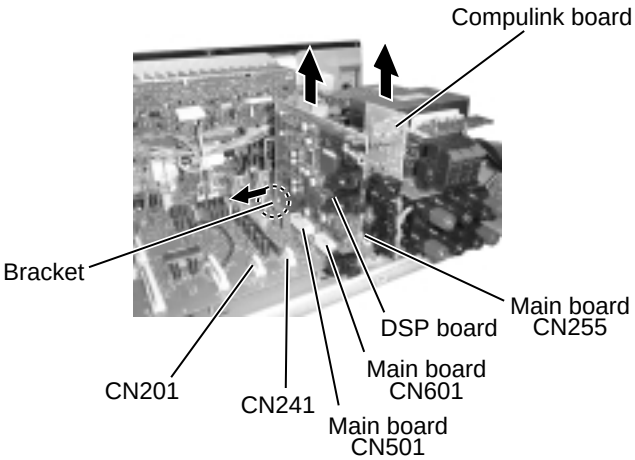


Fig.9

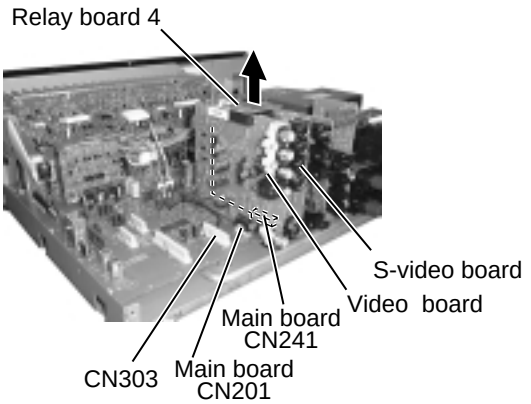


Fig.8

■Removing the main board / regulator board (See Fig.10 to 12)

・ Prior to performing the following procedure, remove the top cover and the rear panel.

ATTENTION: It is not necessary to remove the boards connected to the back of the main board. But to disassemble the main board and the power supply board efficiently, remove them.

1. Disconnect the card wire from connector CN400 on the main board.
2. Cut off the four tie bands fixing the harnesses.
3. Disconnect the harness from connector CN811 on the power transformer board.
4. Disconnect the relay board 1, 2 and 3 from the main board and the power supply board.
5. Disconnect the harness from connector CN704, CN821, CN901, CN711, CN712, CN931 and CN932, CN961.
6. Remove the screw G attaching the regulator board to the heat sink cover.
7. Remove the eight screws H attaching the main board to the heat sink cover.
8. Remove the five screws I and the screw J attaching the main board to the chassis base (The resistor board will come off at the same time).

■Removing the resistor board (See Fig.13)

・ Prior to performing the following procedure, remove the top cover.

1. Disconnect the harness from connector CN881 on the resistor board.
2. Remove the screw J attaching the resistor board.

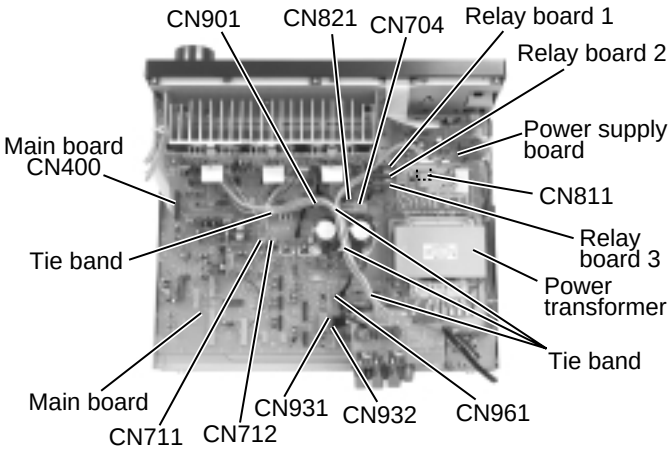


Fig.10

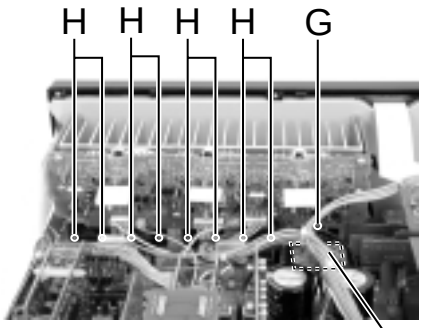


Fig.11

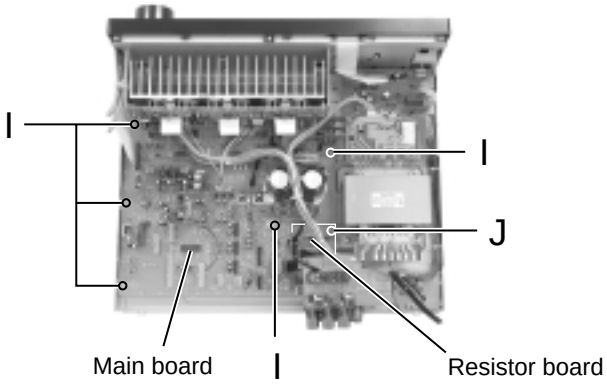


Fig.12

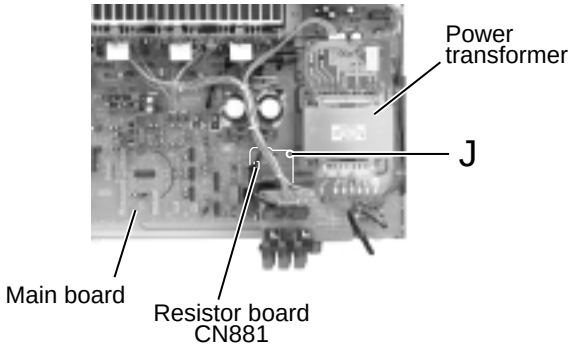


Fig.13

■Removing the amplifier board (See Fig.10 and 14)

- Prior to performing the following procedure, remove the top cover.

1. Cut off the four tie bands fixing the harnesses.
2. Disconnect the harnesses from connector CN711, CN712, CN704 and CN901 on the main board respectively.
3. Remove the four screws K and six screws L attaching the amplifier board.
4. If necessary, unsolder the harness connected to connector CN803 and CN952 on the amplifier board.

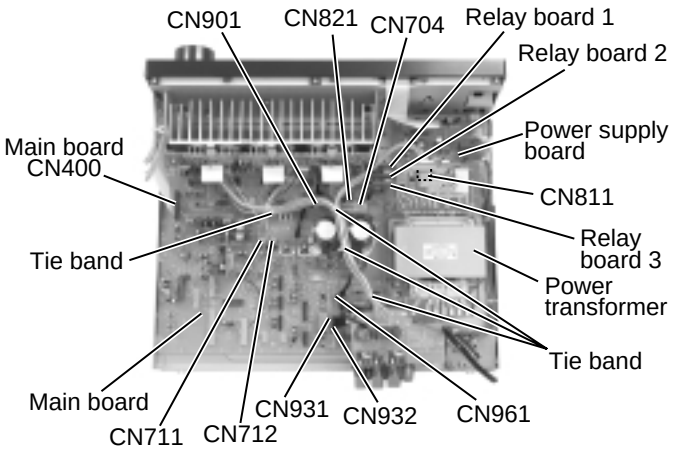


Fig.10

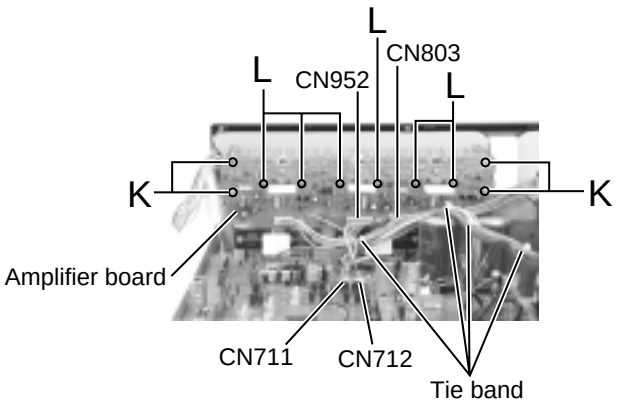


Fig.14

■Removing the power transformer (See Fig.15)

- Prior to performing the following procedures, remove the top cover.

1. Unsolder the two harnesses connected to the power transformer.
2. Disconnect the harness from connector CN811 and the harnesses connected to connector CN55 and CN56 on the power transformer board.
3. Remove the four screws M attaching the power transformer.

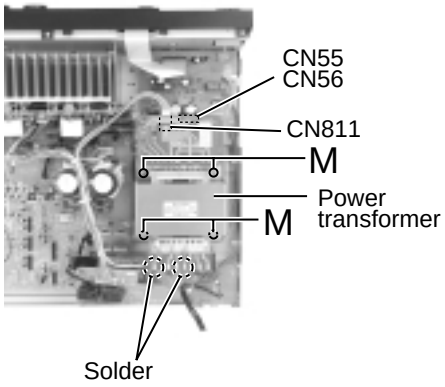


Fig.15

■Removing the power / fuse board (See Fig.16)

- Prior to performing the following procedure, remove the top cover and the rear panel.

1. Remove the screw N attaching the power / fuse board.
2. Unsolder the power cord and other harnesses connected to the power / fuse board.

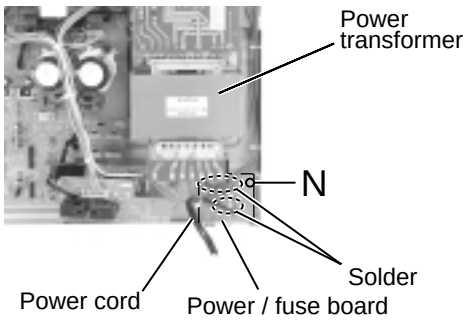


Fig.16

■Removing the power supply board (See Fig.17 and 18)

・Prior to performing the following procedure, remove the top cover and the front panel.

1. Remove the one nut attaching the headphone jack of the power supply board on the front side of the body.
2. Disconnect the relay board 1, 2 and 3 from the power supply board and the main board respectively.
3. Disconnect the harness connected to connector CN55 and CN56 on the power transformer board (If necessary, cut off the two tie bands fixing the harness on the side of the chassis base).
4. Remove the four screws O attaching the power supply board and pull out the power supply board from the front bracket backward.
5. Unsolder the three harnesses connected to the power supply board.

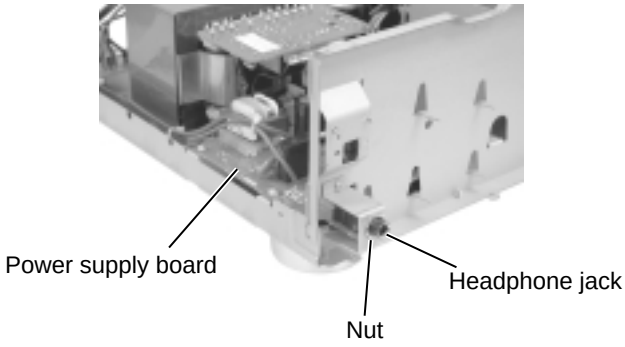


Fig.17

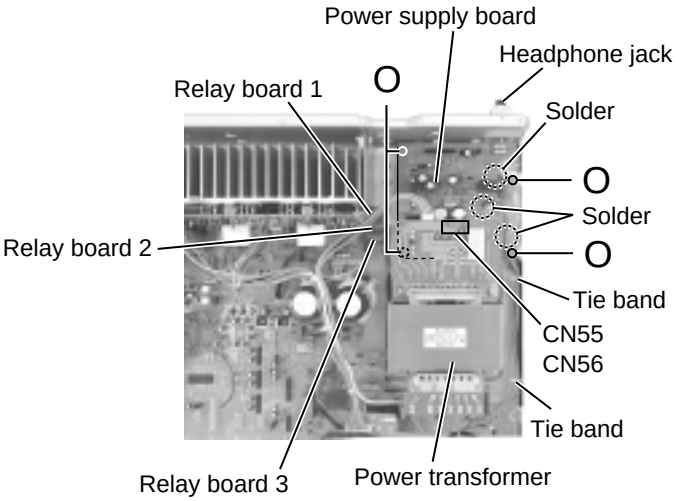


Fig.18

■Removing the system control board / power switch board (See Fig.19 to 20)

・Prior to performing the following procedure, remove the top cover and the front panel assembly.

1. Pull out the volume knob on the front side of the front panel and remove the nut attaching the system control board.
2. Remove the six screws P attaching the system control board on the back of the front panel and disconnect the harness from connector CN422 on the system control board.
3. Disconnect the harness from connector CN430 on the power switch board.
4. Remove the five screws Q attaching the power switch board.

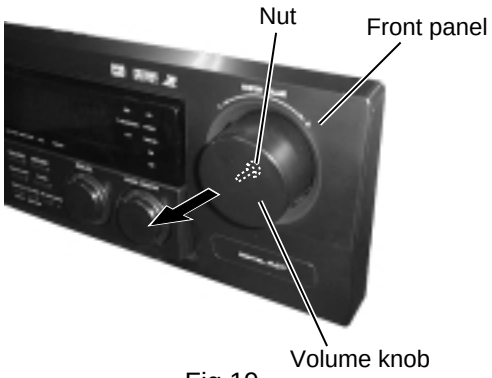


Fig.19

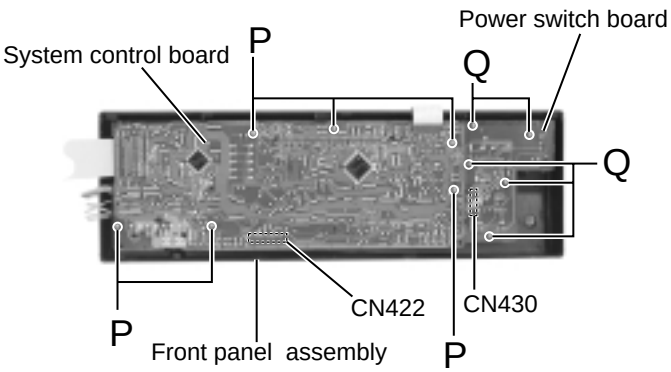


Fig.20

■Removing the operation switch board (See Fig.21 to 23)

・Prior to performing the following procedure, remove the top cover, the front panel assembly and the system control board.

1. Remove the six screws R attaching the operation switch board on the back of the front panel.

2. On the back of the front panel, release the four joints by pushing the joint tabs inward. Remove the operation switch board toward the front.

3. Pull out the multi jog knob and the source selector knob.

4. Remove the two screws S attaching the operation switch board.

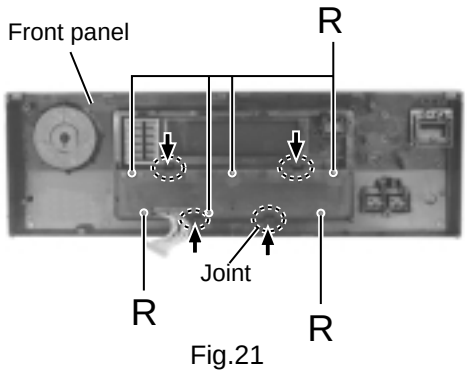


Fig.21

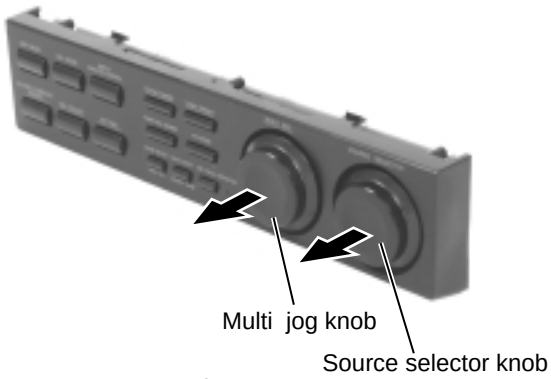


Fig.22

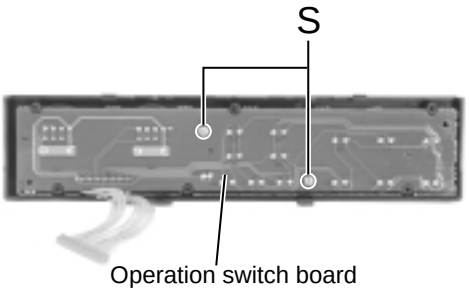


Fig.23

Adjustment method

■ Power amplifier section

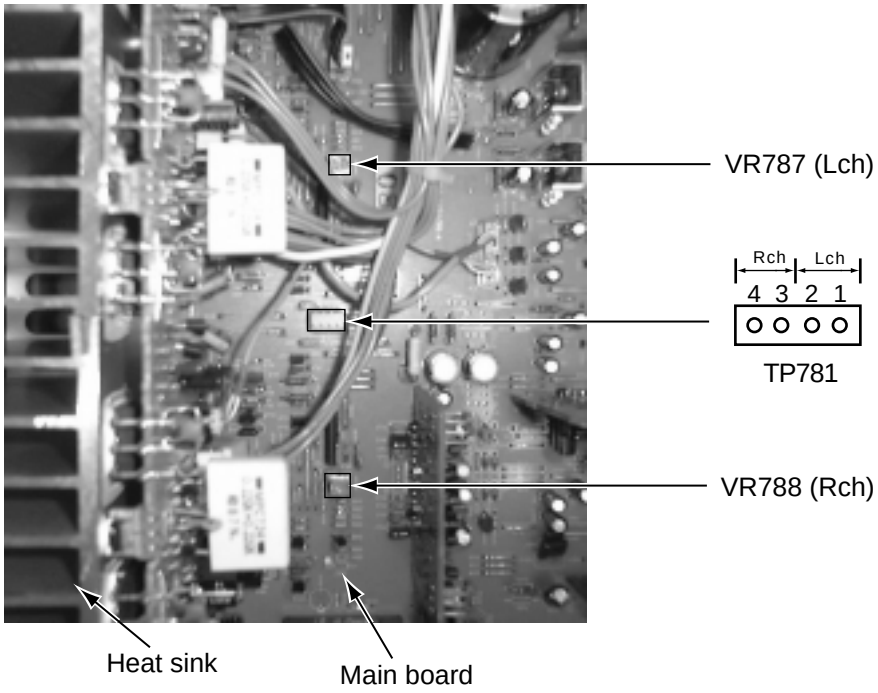
Adjustment of idling current

Measurement location	TP781
Adjustment part	VR787(Lch) , VR788(Rch)

Attention
This adjustment does not obtain a correct adjustment value immediately after the amplifier is used (state that an internal temperature has risen).
Please adjust immediately after using the amplifier after turning off the power supply of the amplifier and falling an internal temperature.

<Adjustment method>
1.Set the volume control to minimum during this adjustment.(No signal & No load)
2.Set the surround mode OFF.
2.Turn VR787 and VR788 fully counterclockwise to warm up before adjustment.
If the heat sink is already warm from previous use the correct adjustment can not be made.
3.For L-ch,connect a DC voltmeter between TP781's pin1 and pin2 (Lch)
And,connect it between pin3 and pin4(Rch).
4.30 minutes later after power on, adjust VR787 for L-ch, or VR788 for R-ch so that the DC voltmeter value has 1mV~10mV.

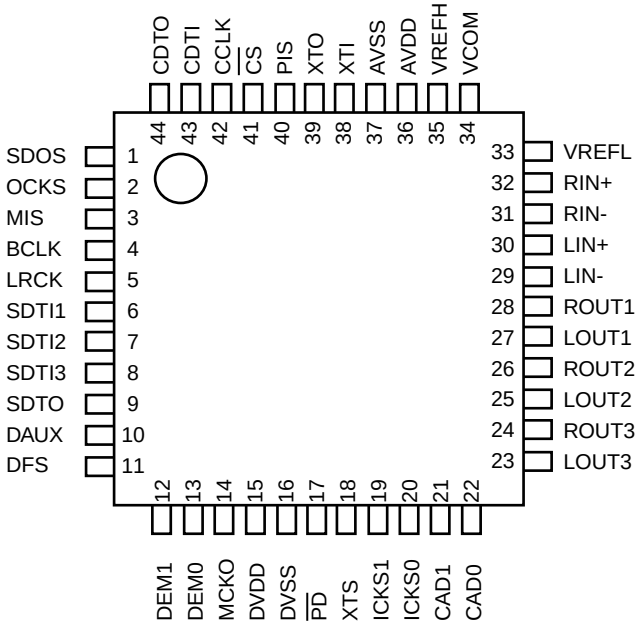
* It is not abnormal though the idling current might not become 0mA even if it is finished to turn variable resistance (VR787,VR788) in the direction of counterclockwise.



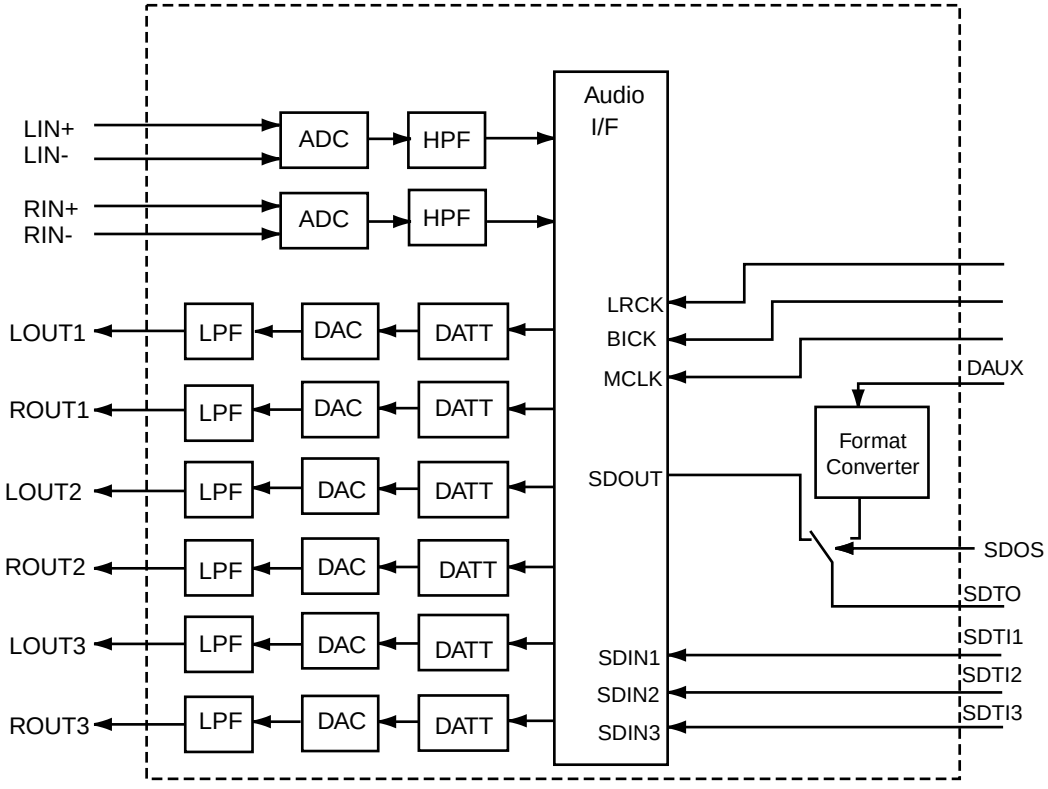
Description of major ICs

■ AK4527 (IC601) : A/D,D/A Converter

1.Pin layout



2.Block diagram



Block Diagram (DIR and AC-3) DSP are external parts)

3. Pin function (1/2)

AK4527(1/2)

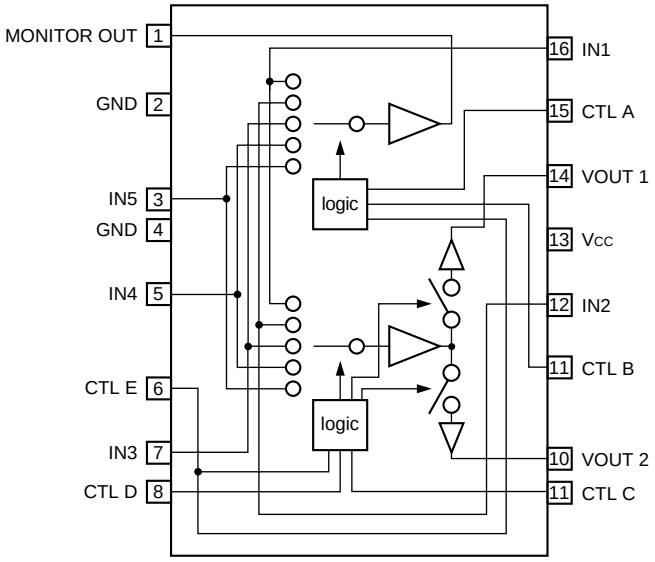
No.	Pin name	I/O	Function
1	SDOS	I	SDTO Source select pin "L" : Internal ADC output, "H" : DAUX input ORed with serial control register if P/S="L".
2	OCKS	I	MCKO Clock frequency select pin "L" : MCLK, "H" : MCLK/2. ORed with serial control register if P/S= "L".
3	MIS	I	Connect to GND
4	BICK	I	Audio serial data clock pin
5	LRCK	I/O	Input/Output channel clock pin
6	SDTI1	I	DAC1 Audio serial data input pin
7	SDTI2	I	DAC2 Audio serial data input pin
8	SDTI3	I	DAC3 Audio serial data input pin
9	SDTO	O	Audio serial data output pin
10	DAUX	I	AUX Audio serial data input pin
11	DFS	I	Double speed sampling mode pin "L" : Normal speed, "H" : Double speed, the ADC is powered down. ORed with serial control register if P/S="L".
12	DEM1	I	De-emphasis pin ORed with serial control register if P/S="L"
13	DEM0	I	De-emphasis Pin ORed with serial control register if P/S="L"
14	MCKO	O	Master clock output pin
15	DVDD	-	Digital power supply pin
16	DVSS	-	Digital ground pin
17	$\overline{PD}$	I	Power-down & Reset pin When "L", the AK4527 is powered-down and the control registers are reset to default state. If the state of CAD0-1 changes, then the AK4527 must be reset by PDN.
18	XTS	I	X'tal oscillator Select/Test mode pin "H" : X'tal Oscillator selected "L" : External clock source selected
19	ICKS1	I	Input clock select 1 pin
20	ICKS0	I	Input clock select 0 pin
21	CAD1	I	Chip address pin Used during the serial control mode.
22	CAD0	I	Chip address pin Used during the serial control mode.
23	LOUT3	O	Lch #3 analog output pin
24	ROUT3	O	Rch #3 analog output pin
25	LOUT2	O	Lch #2 analog output pin
26	ROUT2	O	Rch #2 analog output pin
27	LOUT1	O	Lch #2 analog output pin
28	ROUT1	O	Rch #1 analog output pin
29	LIN-	I	Lch analog negative Input Pin
30	LIN+	I	Lch analog positive Input Pin
31	RIN-	I	Rch analog negative Input Pin
32	RIN+	I	Rch analog positive Input Pin

3.Pin function (2/2)

AK4527(2/2)

No.	Pin Name	I/O	Function
33	VREFL	I	Negative voltage reference Input pin, AVSS
34	VCOM	O	Common voltage output pin,AVDD/2 Large external capacitor around 2.2uF is used to reduce power-supply noise
35	VREFH	I	Positive voltage reference input pin,AVDD
36	AVDD	-	Analog power supply pin
37	AVSS	-	Analog ground pin
38	XTI	I	X'tal input pin
39	XTO	O	X'tal output pin if XTS="H"
	MCKI	I	External master clock input pin if XTS="L"
40	P/S	I	Parallel/Serial select pin "L" : Serial control mode, "H" : Parallel control mode
41	DIF0	I	Audio data interface format pin in parallel mode
	CS	I	Chip select pin in serial mode
42	DIF1	I	Audio data interface format pin in parallel mode
	CCLK	I	Control data clock pin in serial mode
43	LOOP0	I	Loop back mode pin in parallel mode Enables digital loop-back from ADC to 3 DACs.
	CDTI	I	Control data input pin in serial mode
44	LOOP1	I	Loop back mode pin in parallel mode Enable all 3 DAC channels to be input from SDTII.
	CDTO	O	Control data output pin in serial mode

■ BA7625 (IC242,IC201) / BA7626 (IC241): Video selector



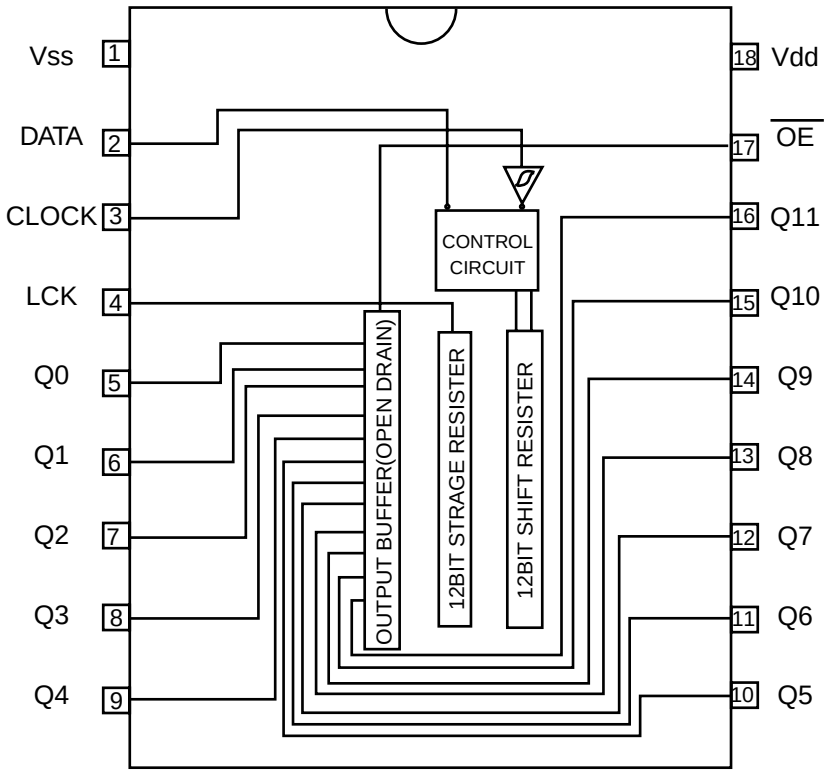
A	B	E	MONITOR OUT
L	L	*	IN1
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	VOUT1
L	L	*	--
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	VOUT2
L	L	*	IN1
H	L	*	--
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

■ BU2092(IC402,IC405):LED Controller

1.Terminal Layout

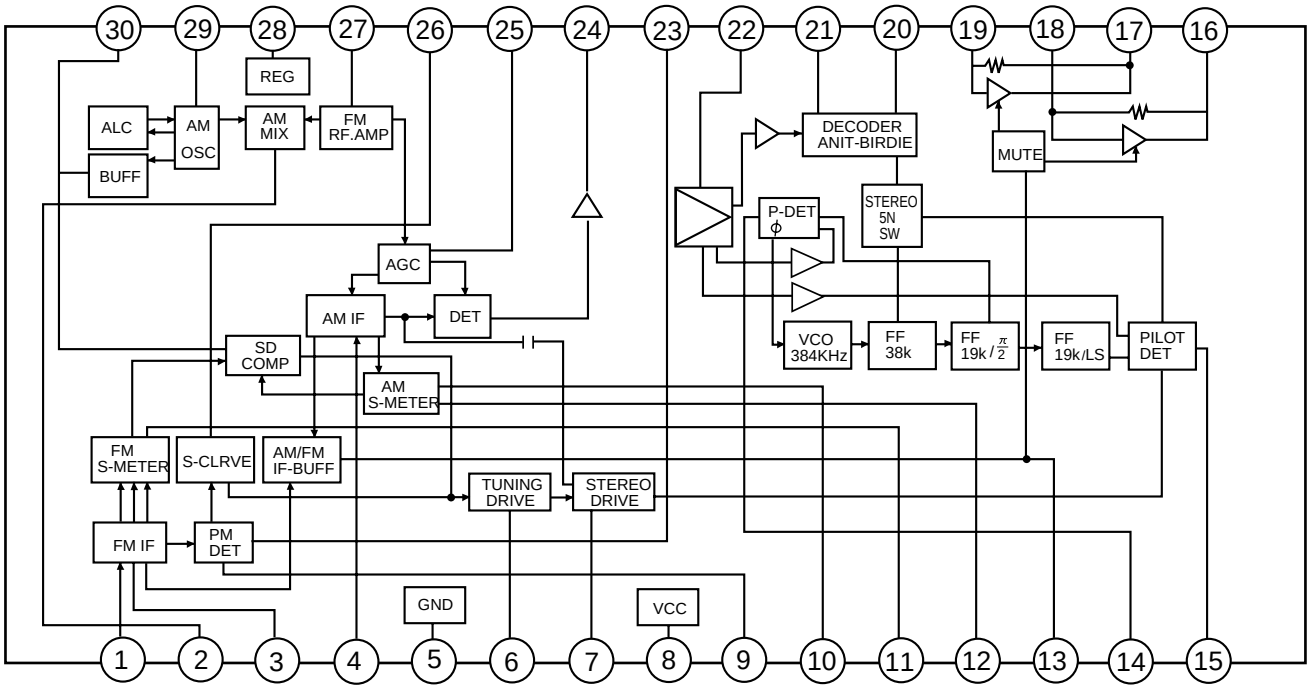


2.Pin Function

Pin No.	Symbol	I/O	Function
1	Vss	-	Connect to GND
2	DATA	I	Serial Data input
3	CLOCK	I	Shift Clock of Data
4	LCK	I	Latch Clock of Data
5~16	Q0~Q11	O	Parallel Data Output Latch Data: L / H OUTPUT: ON / OFF
17	$\overline{OE}$	I	Output Enable
18	Vdd	-	Power Supply

■ LA1838(IC102): FM AM IF AMP&detector, FM MPX Decoder

1. Block Diagram

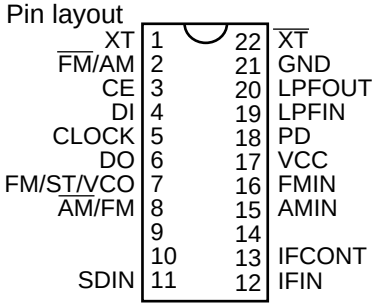


2. Pin Function

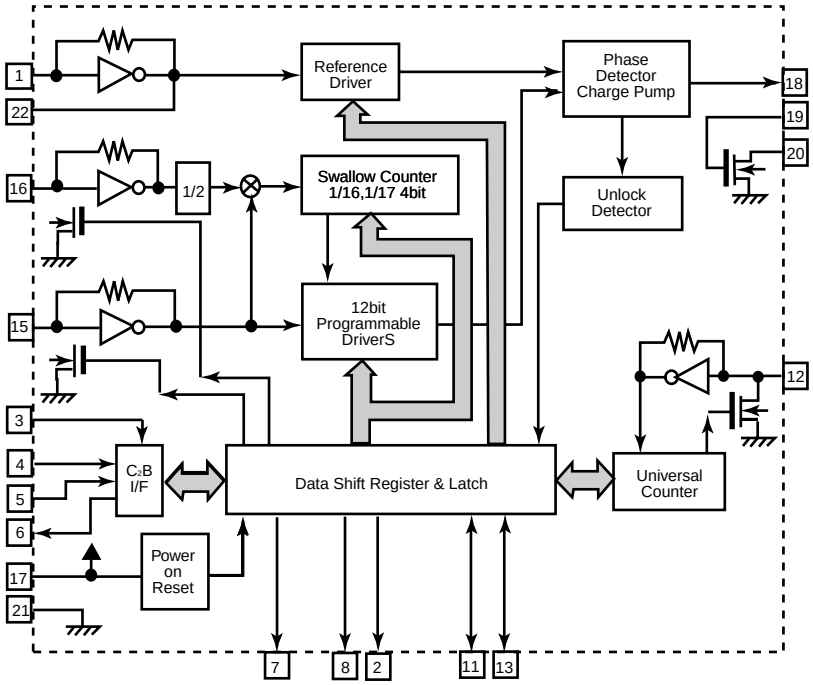
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	FM IN	I	This is an input terminal of FM IF signal.	16	R OUT	O	Right channel signal output.
2	AM MIX	O	This is an out put terminal for AM mixer.	17	L OUT	O	Left channel signal output.
3	FM IF	I	Bypass of FM IF	18	R IN	I	Input terminal of the Right channel post AMP.
4	AM IF	I	Input of AM IF Signal.	19	L IN	I	Input terminal of the Left channel post AMP.
5	GND	—	This is the device ground terminal.	20	RO	O	Mpx Right channel signal output.
6	TUNED	O	When the set is tunning,this terminal becomes "L".	21	LO	O	Mpx Left channel signal output.
7	STEREO	O	Stereo indicator output. Stereo "L", Mono: "H"	22	IF IN	I	Mpx input terminal
8	VCC	—	This is the power supply terminal.	23	FM OUT	O	FM detection output.
9	FM DET	—	FM detect transformer.	24	AM DET	O	AM detection output.
10	AM SD	—	This is a terminal of AM ceramic filter.	25	AM AGC	I	This is an AGC voltage input terminal for AM
11	FM VSM	O	Adjust FM SD sensitivity.	26	AFC	—	This is an output terminal of voltage for FM-AFC.
12	AM VSM	O	Adjust AM SD sensitivity.	27	AM RF	I	AM RF signal input.
13	MUTE	I/O	When the signal of IF REQ of IC121(LC72131) appear, the signal of FM/AM IF output. //Muting control input.	28	REG	O	Register value between pin 26 and pin28 besides the frequency width of the input signal.
14	FM/AM	I	Change over the FM/AM input. "H" :FM, "L" : AM	29	AM OSC	—	This is a terminal of AM Local oscillation circuit.
15	MONO/ST	O	Stereo : "H", Mono: "L"	30	OSC BUFFER	O	AM Local oscillation Signal output.

■ LC72136N (IC121) : PLL Frequency synthesizer

1. Pin layout



2. Block diagram

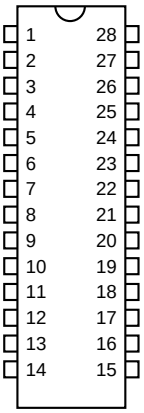


3. Pin function

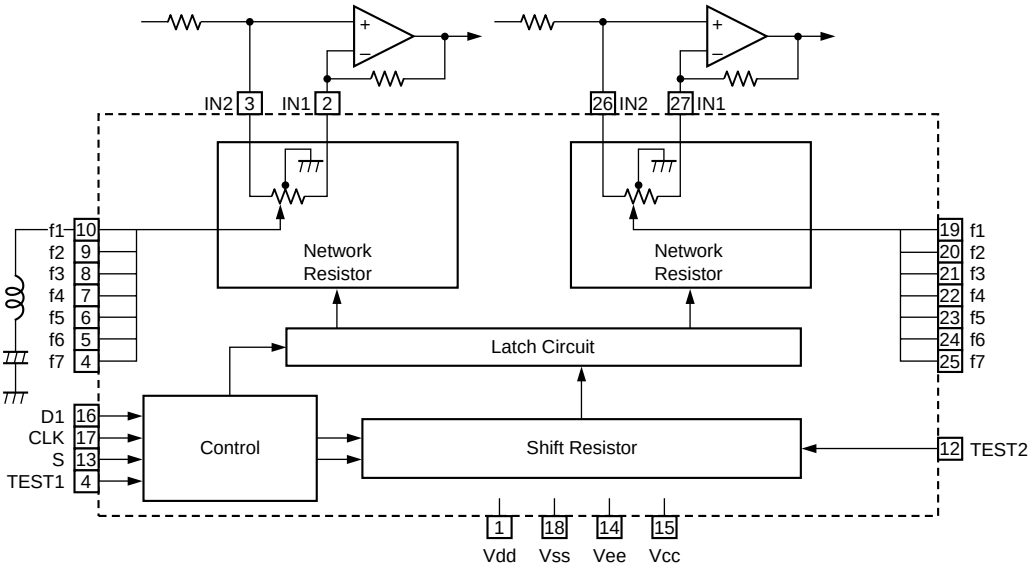
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75kHz)	12	IFIN	I	IF counter signal input
2	$\overline{FM}$/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the serial data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power suplly(VDD=4.5-5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	$\overline{AM}$/FM	O	Open state after the power on reset	19	LPFIN	I	Input for active lowpassfilter of PLL
9	LW	I/O	Input/output port	20	LPFOUT	O	Output for active lowpassfilter of PLL
10	MW	I/O	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	$\overline{XT}$	I	X'tal oscillator(75KHz)

■ LC7522 (IC451) : SEA Control

1.Pin layout



2.Block diagram

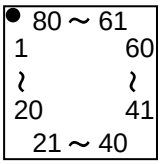


3.Pin function

Pin No.	Symbol	Function
1 18 14 15	V_{DD} V_{SS} V_{EE} V_{CC}	Power Supply terminal for Audio signal +7V(typ) Power Supply terminal 0V Power Supply terminal for Audio signal. Single channel use, joint VSS. Power Supply terminal +5V(typ)
2,27 3,26	IN 1 IN 2	Audio signal Input terminal IN1 joint opposite input of Operation amp. IN2 joint inapposite input of Operation amp. It have Right and Left.
16	D1	Data input terminal from CPU Shumit inverter style
17	CLK	Clock input terminal from CPU Shumit inverter style
4~10 19~25	f1~f7	Joint terminal of B.P.F. f1~f7 X Right, Left Total 14 terminal
11 12	TEST1 TEST2	Internal test terminal of IC It can use open condition
13	S	Select terminal for 2 tip use "1" input, key code 7C3 - VDD joint "0" input, key code 7C2 - VEE joint
28	NC	No use

■ MN101C15FDE (IC401) : System control micon

1. Pin layout

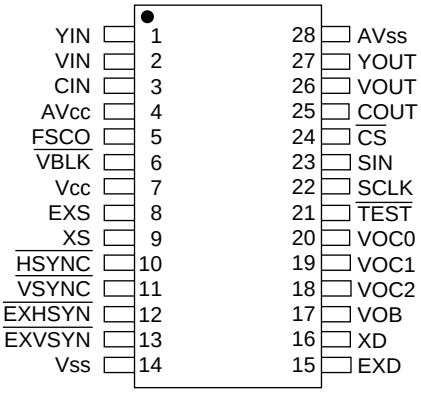


2. Pin function

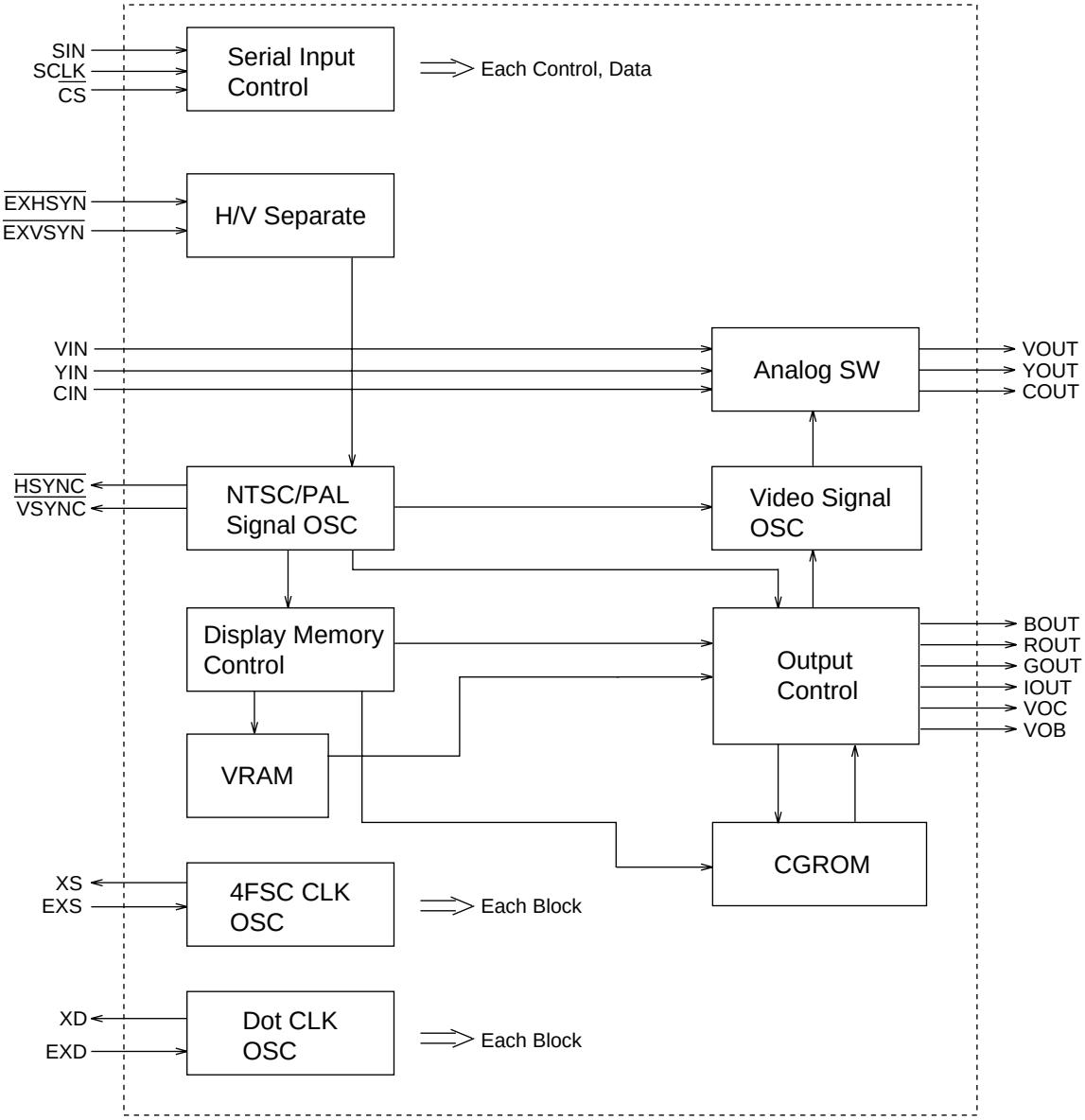
Pin No	Symbol	Functions	Pin No	Symbol	Functions
1	GND	Ground	41	VIDEO3	VIDEO 3 signal terminal
2	DVD-S/C	DVD S/C signal select terminal	42	VIDEO4	VIDEO 4 signal terminal
3	VCR1-S/C	VCR1 S/C signal select terminal	43	S.MUTE	Source mute control terminal
4	VIDEO-S/C	VIDEO S/C signal select terminal	44	————	No use
5	TV-S/C	TV S/C select terminal	45	————	No use
6	4/8-IN	4 ohm / 8 ohm select signal terminal	46	————	No use
7	————	————	47	RDS-DATA	RDS control signal terminal
8	GND	Ground	48	————	No use
9	PROTECT	Protect	49	RDS-CLK	RDS control signal clock
10	GND	Ground	50	DSP-READY	DSP control signal clock
11	VDD	Power supply	51	DSP-RESET	DSP reset signal terminal
12	OSC 12	Oscillation terminal	52	M/CS	Control signal from IC400
13	OSC 11	Oscillation terminal	53	M-RESET	Reset signal from IC400
14	VSS	Ground	54	M-STATUS	Status signal from IC400
15	X1	Ground	55	M-COMMAND	Command signal from IC400
16	X0	No use	56	M-CLK	Clock signal from IC400
17	GND	Ground	57	SEA-CLK	SEA clock signal from terminal
18	TEXT-OUT	Text signal output terminal	58	SEA-DATA	SEA data signal terminal
19	TEXT-IN	Text signal input terminal	59	VL/VH	Connect to power supply board
20	MASTER	Master signal terminal	60	4/8 OUT	4 ohm / 8 ohm select signal terminal
21	DSP-COMMAND	DSP control signal terminal	61	SW-DATA	Switch data signal terminal
22	DSP-STATUS	DSP control signal terminal	62	SW-CLK	Switch clock signal terminal
23	DSP-CLK	DSP control signal terminal	63	VOL-STB	Volume strobe signal terminal
24	————	No use	64	VOL-DATA	Volume data signal terminal
25	RESET-IN	Reset signal input terminal	65	VOL-CLK	Volume clock signal terminal
26	TUNER-CE	Tuner chip enable	66	SW-STB	Switch strobe signal terminal
27	TUNER-CLK	Tuner clock signal terminal	67	————	No use
28	————	No use	68	————	No use
29	TUNER-DATA	Tuner control signal terminal	69	FR1-RELAY	Relay 1 signal terminal
30	TUNER-MUTE	Tuner mute signal terminal	70	FR2-RELAY	Relay 2 signal terminal
31	TUNER-IN	Tuner signal input terminal	71	CNTR-RELAY	Center speaker relay terminal
32	STEREO-IN	Stereo signal input terminal	72	SUR-RELAY	Surround speaker relay terminal
33	RDS-ST	Data start signal for block data to output serial data.	73	SUB-MUTE	SUB woofer out mute control
			74	LED-LCK2	LED latch clock signal terminal
34	M-BUSY	Busy signal from IC400	75	C.TONE3	Center tone 3 signal terminal
35	INH	Inhibit signal input	76	C.TONE2	Center tone 2 signal terminal
36	OSD-DATA	OSD data signal input terminal	77	C.TONE1	Center tone 1 signal terminal
37	OSD-STB	OSD standby signal terminal	78	LED-LCK1	LED latch clock signal terminal
38	OSD-CLK	OSD clock signal terminal	79	LED-DATA	LED data signal terminal
39	VIDEO1	VIDEO 1 signal terminal	80	LED-CLK	LED clock signal terminal
40	VIDEO2	VIDEO 2 signal terminal			

■ MB90088PF-131 (IC203) : On screen display controller

1.Terminal layout



2.Block diagram

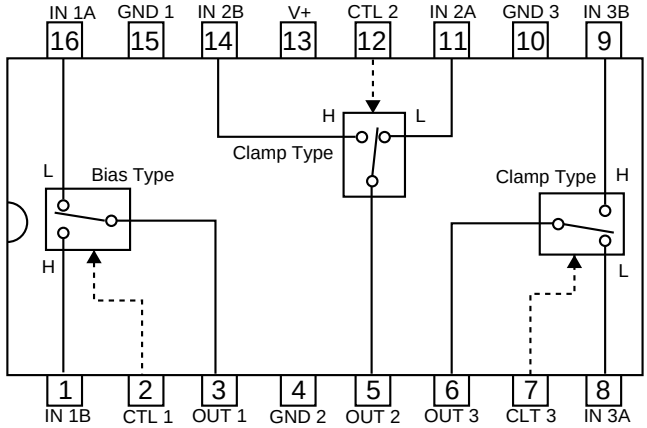


3.Pin functions (MB90088PF-131)

pin no	Symbol	I/O	Function
1	YIN	I	Brightness signal Input terminal for Superinpause indication
2	VIN	I	Composite video signal input terminal for Superinpause indication
3	CIN	I	Contrast signal input terminal for Superinpause indication
4	AVcc	-	Analog power supply terminal
5	IOUT	O	Color (Brightness) signal output terminal
6	VOC	O	Character output terminal
7	Vcc	-	Power supply terminal
8	EXS	I	Clock generater outside circuit terminal for color burst
9	XS	O	
10	$\overline{\text{HSYNC}}$	O	Horizontal signal output terminal
11	$\overline{\text{VSYNC}}$	O	Vertical signal output terminal
12	$\overline{\text{EXHSYN}}$	I	EXT horizontal signal input terminal
13	$\overline{\text{EXVSYN}}$	I	EXT vertical signal input terminal
14	Vss	-	GND
15	EXD	I	Dot clock generater outside circuit signal terminal for indication
16	XD	O	
17	VOB	O	Character & background signal output terminal
18	GOUT	O	Color signal (Green, Red, Blue)
19	ROUT		
20	BOUT		
21	$\overline{\text{TEST}}$	I	Test signal input terminal
22	SCLK	I	Shift clock input terminal for serial transmission
23	SIN	I	Serial data input terminal
24	$\overline{\text{CS}}$	I	Chip select terminal
25	COUT	O	Contrast signal output terminal
26	VOUT	O	Composite video signal output terminal
27	YOUT	O	Brightness signal output terminal
28	AVss	-	Analog GND terminal

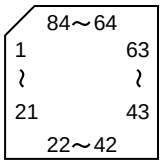
■ NJM2285D (IC202) : Video switch

1.Terminal layout & Block diagram



■ MN173222DG(IC400):FL Display & Operation switch control

1.Pin layout



2.Key matrix

	KEY OUT 0	KEY OUT1	KEY OUT 2	KEY OUT 3	KEY OUT 4	KEY OUT 5
KEY IN 0	POWER	ANALOG/ DIGITAL	SEA ADJUST	FM/AM TUNING	DISPLAY MODE	ONE TOUCH OPERATION
KEY IN 1	SURROUND	DSP MODE	FM MODE	TUNER PRESET	TA/NEWS/INFO	————
KEY IN 2	SPEAKER 1	LOUDNESS	LEVEL ADJUST	MEMORY	EON	————
KEY IN 3	SPEAKER 2	SEA MODE	SOUND SELECT	SETTING	PTY SEARCH	————

3.Pin function

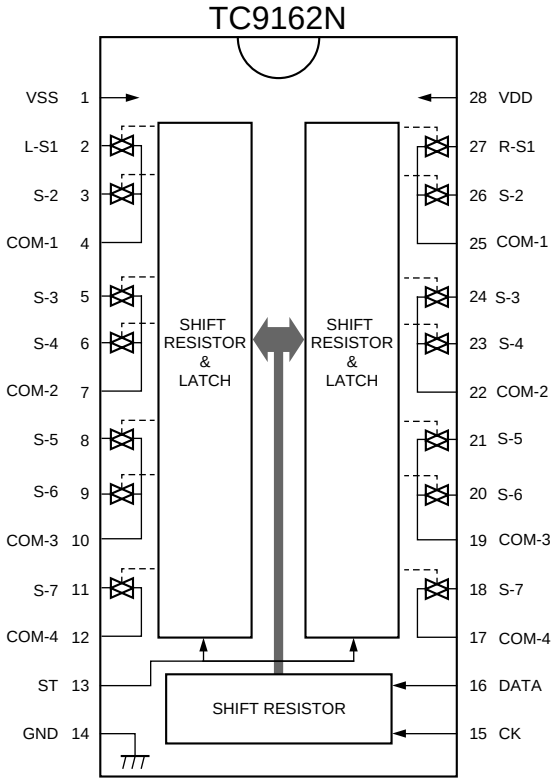
Pin No.	Symbol	I/O	Description
1~22	S22~S1	O	FL Segment control signal
23	VPP	-	Power supply terminal
24~39	G15~G1/KO0~5	O	FL grid control signal / Key matrix output
40,41	JOG1,2	I	Source select JOG1,2
42,43	JOG3,4	I	Volume JOG 3,4
44	M BUSY	O	BUSY Signal output to IC401
45	M CLK	I/O	Clock signal to IC401
46	M COMMAND	I	Command data input from IC401
47	M STATUS	O	Status signal output to IC401
48	M CS	I	Chip select signal input from IC401
49	RM	I	Remote control signal input
50	VCRI	I	AV Compu-link VCR input
51	DCSI	I	AV Compu-link DCS input
52	DCSO	O	AV Compu-link DCS output
53	VCRO	O	AV Compu-link VCR output
54	TVD	O	AV Compu-link TV output
55	TVC	O	AV Compu-link TV control output
56,57	JOG5,6	I	Multi JOG 5,6
58	POWER	I	Power ON control output
59		O	STANDBY LED control H:Lighting
60~63	KI3~KI0	I	Key matrix input
64~67	S36~S33	O	FL Segment control signal
68	RST	I	Reset input
69	X1	-	Connect to GND
70	X2	-	Non connect
71	VSS	-	Connect to GND
72	OSC2	-	Oscillation terminal 6MHz
73	OSC1	-	Oscillation terminal 6MHz
74		-	Not use
75~84	S32~S23	O	FL Segment control signal

■ TC9162AN (IC321): Analog switch

1.Function

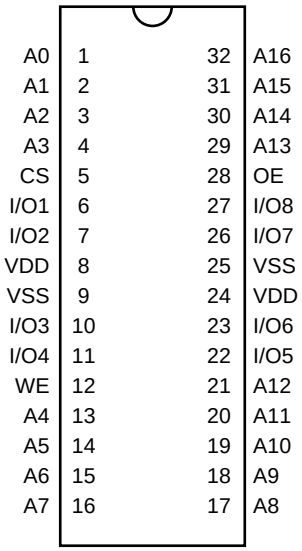
Switch to On/Off of S1 to S8 by control of LSI.

2.Terminal Lay out & Block Diagram

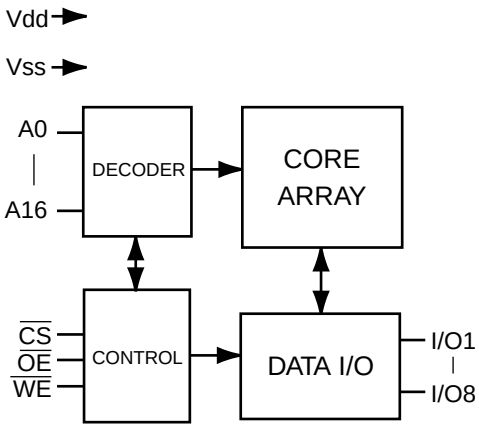


■ W24L011AJ-15(IC641):SDRAM

1.Pin layout



2.Block diagram



3.Pin function

Symbol	Description
A0~A16	Address inputs
I/O1~I/O8	Data inputs/outputs
CS	Chip select inputs
WE	Write enable input
OE	Output enable input
Vdd	Power supply
Vss	Ground

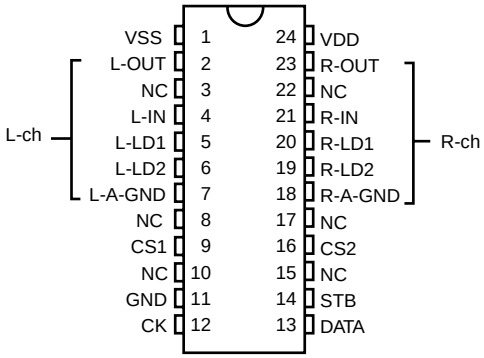
■ TC9446F-014(IC631):Digital signal processor for dolby digital / DTS audio decode

Pin No.	Symbol	I/O	Function
1	$\overline{RST}$	I	Reset signal input terminal (L:reset H:Operation usually)
2	MIMD	I	Microcomputer interface mode selection input terminal (L:serial H:IC bus)
3	$\overline{MICS}$	I	Microcomputer interface chip select input terminal
4	$\overline{MILP}$	I	Microcomputer interface latch pulse input
5	MIDIO	I/O	Microcomputer interface data I/O terminal
6	$\overline{MICK}$	I	Microcomputer interface clock input terminal
7	MIACK	O	Microcomputer interface acknowledge output terminal
8~11	FI0~3	I	Flag input terminal 0~3
12	IRQ	I	Interrupt input terminal
13	VSS	-	Digital ground terminal
14	LRCKA	I	Audio interface LR clock input terminal A
15	BCKA	I	Audio interface bit clock input terminal A
16~18	SDO0~2	O	Audio interface data output terminal 0
19	SD03	-	Non connect
20	LRCKB	I	Audio interface LR clock input terminal B
21	BCKB	I	Audio interface bit clock input terminal B
22	SDT0	I	Audio interface data input terminal 0
23	SDT1	I	Audio interface data input terminal 1
24	VDD	-	Power supply for digital circuit
25	LRCKOA	O	Audio interface LR clock output terminal A
26	BCKOA	O	Audio interface bit clock output terminal A
27,28	$\overline{TEST0,1}$	I	Test input terminal 0/1 (L:test H:operation usually)
29~31	LRCKOB,BCKOB,TXO	-	Non connect
32,33	$\overline{TEST2,3}$	I	Test input terminal (L:test H:operation usually)
34	RX	I	SPDIF input terminal
35	VSS	-	Ground terminal for digital circuit
36	$\overline{TSTSUB0}$	I	Test sub input terminal 0 (L:test H:operation usually)
37	FCONT	O	VCO Frequency control output terminal
38,39	$\overline{TSTSUB1,TSTSUB2}$	I	Test sub input terminal 1,2 (L:test H:operation usually)
40	PDO	O	Phase error signal output terminal
41	VDDA	-	Power supply for analog circuit
42	PLON	I	Clock selection input terminal (L:external clock H:VCO clock)
43	AMPI	I	AMP.input terminal for LPF
44	AMPO	O	AMP.output terminal for LPF
45	CKI	I	External clock input terminal
46	VSSA	-	Ground terminal for analog circuit
47	CKO	O	DIR Clock output terminal
48	LOCK	O	VCO Lock detection output terminal
49	VSS	-	Ground terminal for digital circuit
50	$\overline{WR}$	O	External SRAM writing signal output terminal
51	$\overline{OE}$	O	External SRAM output enable signal output terminal
52	$\overline{CE}$	O	External SRAM chip enable signal output terminal
53	VDD	-	Power supply terminal for digital circuit
54~61	IO7~0	I/O	External SRAM data I/O terminal 7~0
62	VSS	-	Ground terminal for digital circuit
63~70	AD0~7	O	External SRAM address output terminal 0~7
71	VDD	-	Power supply terminal for digital circuit
72~80	AD8~16	O	External SRAM address output terminal 8~16
81	VSS	-	Ground terminal for digital circuit
82~89	PO0~7	O	General purpose output terminal 0~7
90	VDDDL	-	Power supply terminal for DLL
91	LPFO	O	LPF output terminal for DLL
92,93	DLON,DLCKS	I	Refer to the undermentioned table
94	SCKO	-	Non connect
95	VSSDL	-	Ground terminal for DLL
96	SCKI	I	External system clock input terminal
97	VSSX	-	Ground termonal for oscillation circuit
98,99	XO,XI	I/O	Oscillation I/O terminal
100	VDDX	-	Power supply terminal for oscillation circuit

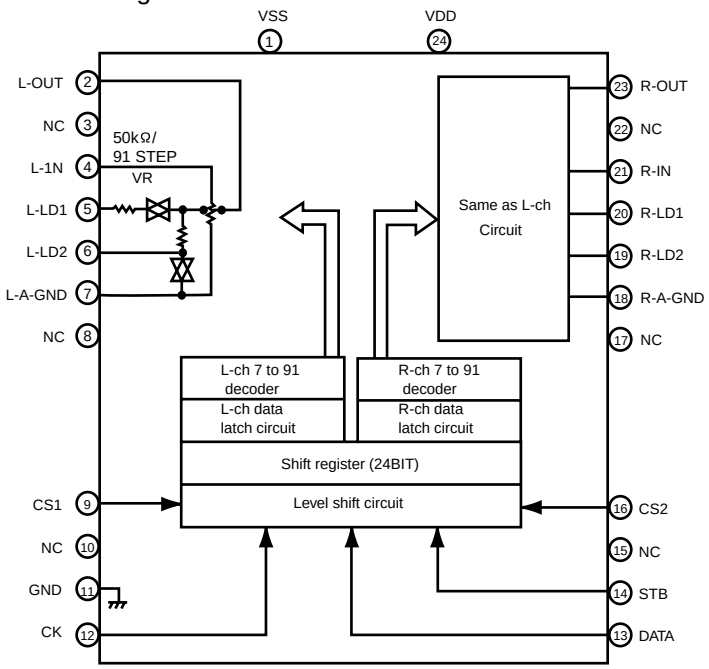
DLCKS terminal	DLONterminal	DLL clock setting
L	L	SCKI input (DLL circuit OFF)
L	H	Four times XI clock
H	L	Three times XI clock
H	H	Six times XI clock

■ TC9459F (IC331,IC332,IC333) : Electronic volume control

1.Pin layout



2. Block diagram

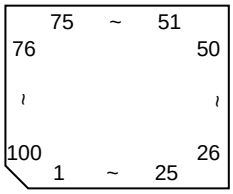


3.Pin function

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	VSS	Negative power supply pin	13	DATA	Volume setup serial data input
2	L-OUT	Volume output pin	14	STB	Data write strobe input
3	NC	No connection	15	NC	No connection
4	NC	No connection	16	CS2	Chip select input pin
5	L-LD1	Loudness tap output pin	17	NC	No connection
6	L-LD2	Loudness tap output pin	18	R-A-GND	Analog GND pin
7	L-A-GND	Analog GND pin	19	R-LD2	Loudness tap output pin
8	NC	No connection	20	R-LD1	Loudness tap output pin
9	CS1	Chip select input pin	21	R-IN	Volume input pin
10	NC	No connection	22	NC	No connection
11	NC	No connection	23	R-OUT	Volume output pin
12	CK	Data transfer clock input	24	VDD	Positive power supply pin

■ UPD784215AGC103(IC671):UNIT CPU

1.Pin layout



2.Pin function

Pin No.	Symbol	I/O	Function
1~8		-	Non connect
9	VDD	-	Power supply terminal
10	X2	O	Connecting the crystal oscillator for system main clock
11	X1	I	Connecting the crystal oscillator for system main clock
12	VSS	-	Connect to GND
13	XT2	O	Connecting the crystal oscillator for system sub clock
14	XT1	I	Connecting the crystal oscillator for system sub clock
15	$\overline{\text{RESET}}$	I	System reset signal input
16	$\overline{\text{AUTODATA}}$	I	Output of DSP to general-purpose port
17	LOCK	I	Output of DSP to general-purpose port
18	DIGITAL0	I	Output of DSP to general-purpose port
19	FORMAT	I	Output of DSP to general-purpose port
20	CHANNEL	I	Output of DSP to general-purpose port
21	ERR	I	Output of DSP to general-purpose port
22	$\overline{\text{RSTDET}}$	I	Reset signal input
23	AVDD	-	Power supply terminal
24	AVREF0	-	Connect to GND
25~32		-	Connect to GND
33	AVSS	-	Connect to GND
34,35		-	Non connect
36		-	Power supply terminal
37,38	RX,TX	-	Not use
39		-	Non connect
40	DSPCOM	I	Communication port from IC401
41	DSPSTS	O	Status communication port to IC401
42	$\overline{\text{DSPCLK}}$	I	Clock input from IC401
43	DSPRDY	I	Ready signal input from IC401
44		-	Non connect
45,46	MIDIO_IN/OUT	I/O	Interface I/O terminal with microcomputer
47	$\overline{\text{MICK}}$	O	Interface I/O terminal with microcomputer of clock signal
48	$\overline{\text{MICS}}$	O	Interface I/O terminal with microcomputer of chip select
49	$\overline{\text{MILP}}$	O	Interface I/O termonal with microcomputer
50	$\overline{\text{MIACK}}$	O	Interface I/O termonal with microcomputer
51,52		-	Non connect
53	$\overline{\text{DSPRST}}$	O	Reset signal output of DSP
54~63		-	Non connect
64,65	CDTI/CDTO	I/O	Interface I/O terminal with microcomputer
66	$\overline{\text{CCLK}}$	O	Interface I/O terminal with microcomputer of clock signal
67	$\overline{\text{CS}}$	O	Interface I/O terminal with microcomputer of chip select
68	XTS	O	OSC Select
69,70		-	Non connect
71	$\overline{\text{PD}}$	O	Reset signal output
72	GND	-	Connect to GND
73~80		-	Non connect
81	VDD	-	Power supply
82	$\overline{\text{3D-ON}}$	-	Non connect
83	3D-ON	O	Switch at output destination of surround channel
84	ANA/T-TONE	O	Test tone control
85	REF-MIX	O	Control at output destination of LFE channel
86		-	Non connect
87	D.MUTE	O	Mute of the digital out terminal is controlled
88	$\overline{\text{S.MUTE}}$	O	Mute of the audio signal is controlled
89		-	Non connect
90~93	ASW1~4	O	Selection of digital input selector
94	TEST	-	Test terminal
95~100		-	Non connect

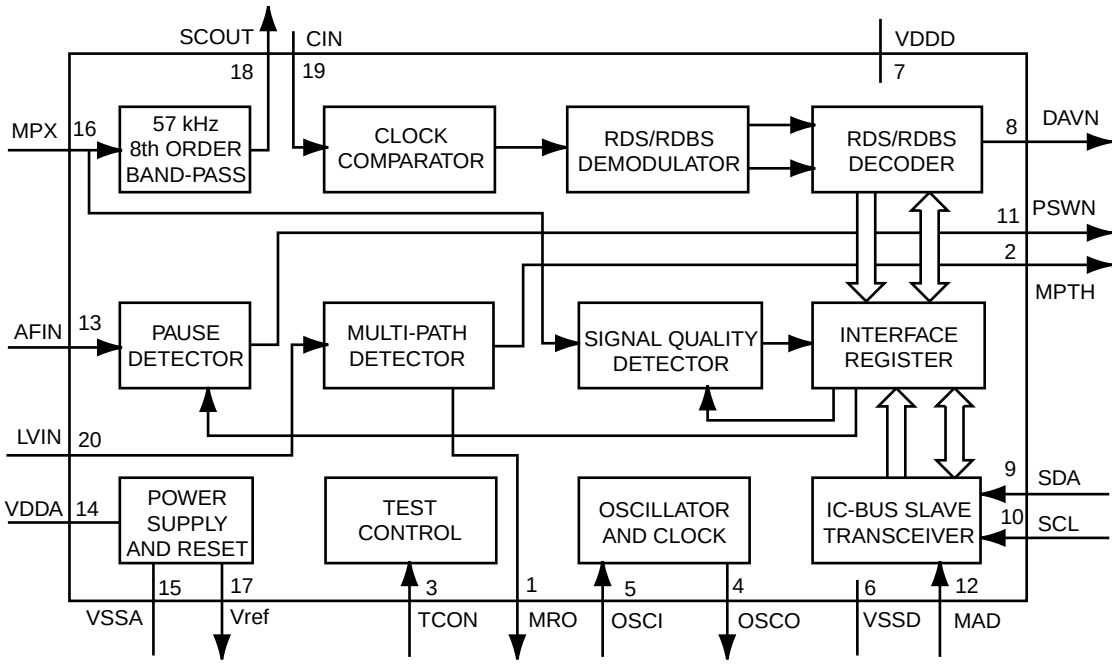
■ SAA6588 (IC191) : RDS Detector

1.Terminal Layout

2.Pin Function

Pin No.	Symbol	I/O	Function
1	MRO	O	Multi-path rectifier output
2	NC	-	Non connect
3	GND	I	Test control input pin
4	OSCO	O	Oscillator output
5	OSCI	I	Oscillator input
6	VSSD	-	Digital ground (0V)
7	VDDD	-	Digital power supply (5V)
8	DAVN	O	Data available output (active LOW)
9	SDA	I/O	IC-bus serial data I/O
10	SCL	I	IC-bus serial clock input
11	NC	-	Non connect
12	GND	-	Connect to ground
13	NC	-	Non connect
14	VDDA	-	Analog power supply (5V)
15	VSSA	-	Connect to ground
16	MPX	I	Multiplex input signal
17	Vref	O	Reference voltage output
18	SCOUT	O	Band-pass filter output
19	CIN	O	Comparator output
20	NC	I	Level input

3.Block Diagram



<<MEMO>>

JVC

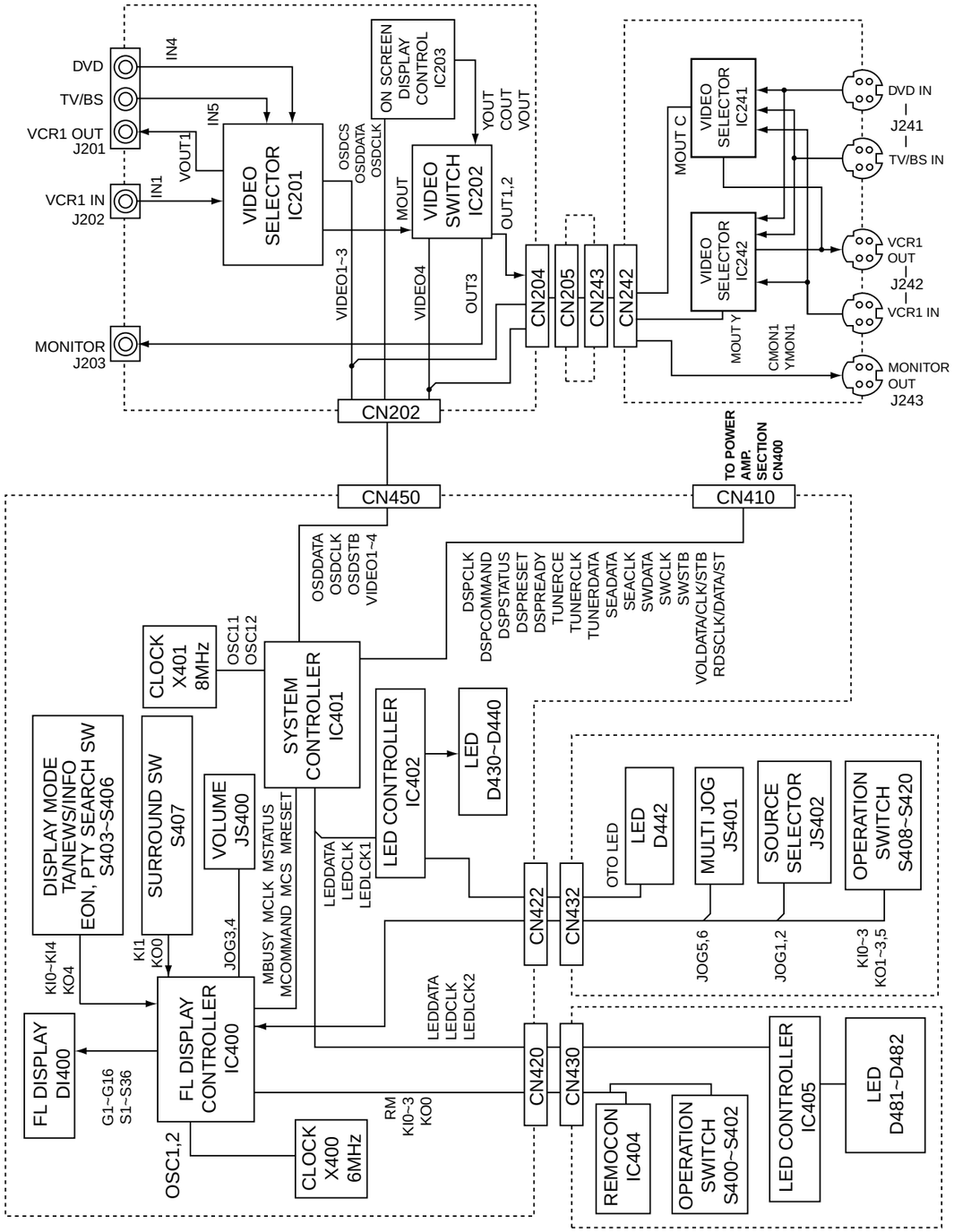
VICTOR COMPANY OF JAPAN, LIMITED
AUDIO & COMMUNICATION BUSINESS DIVISION
PERSONAL & MOBILE NETWORK B.U 10-1,1Chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

No.20846

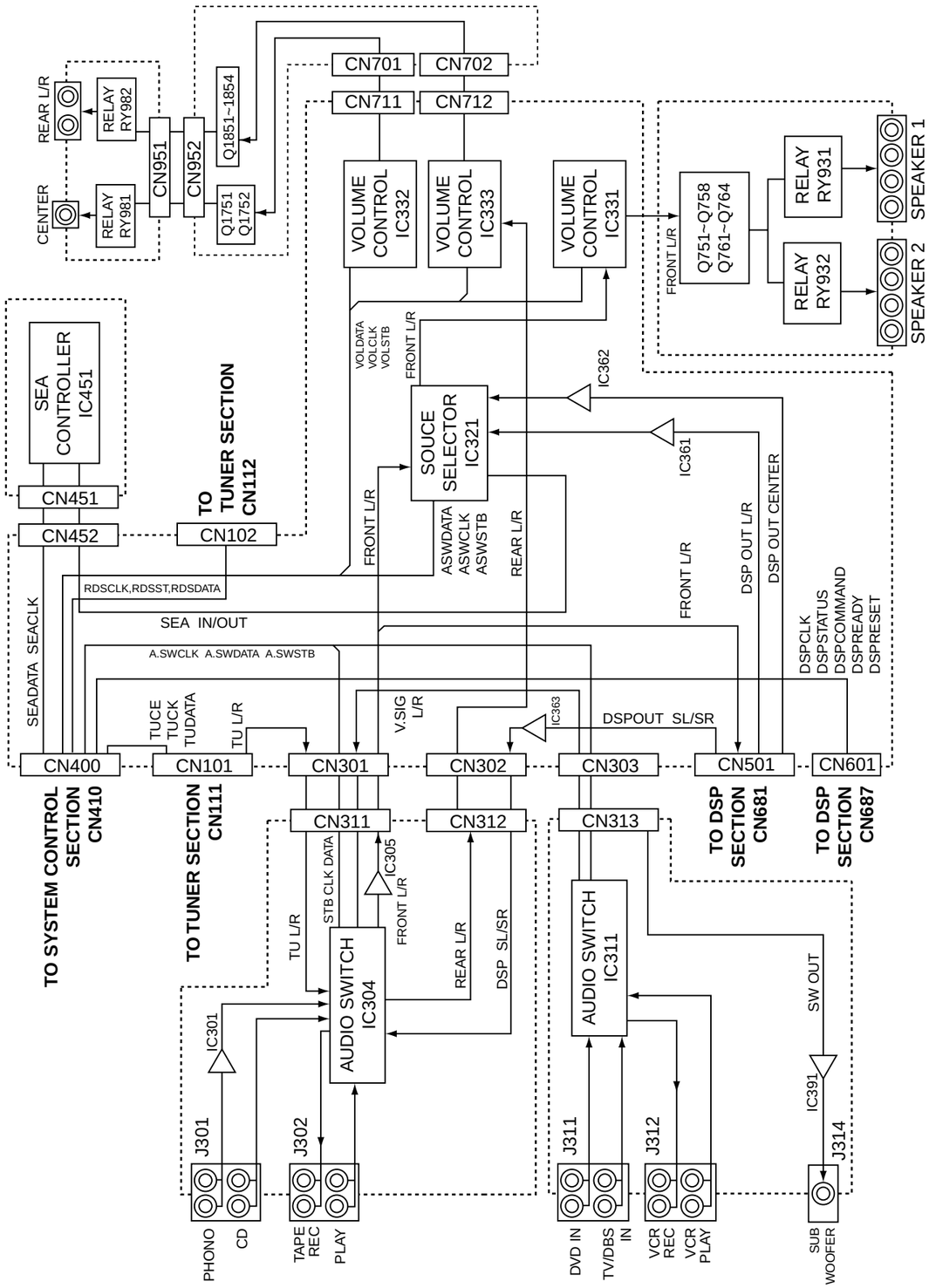
Printed in Japan
2000 07(O)

Block diagrams

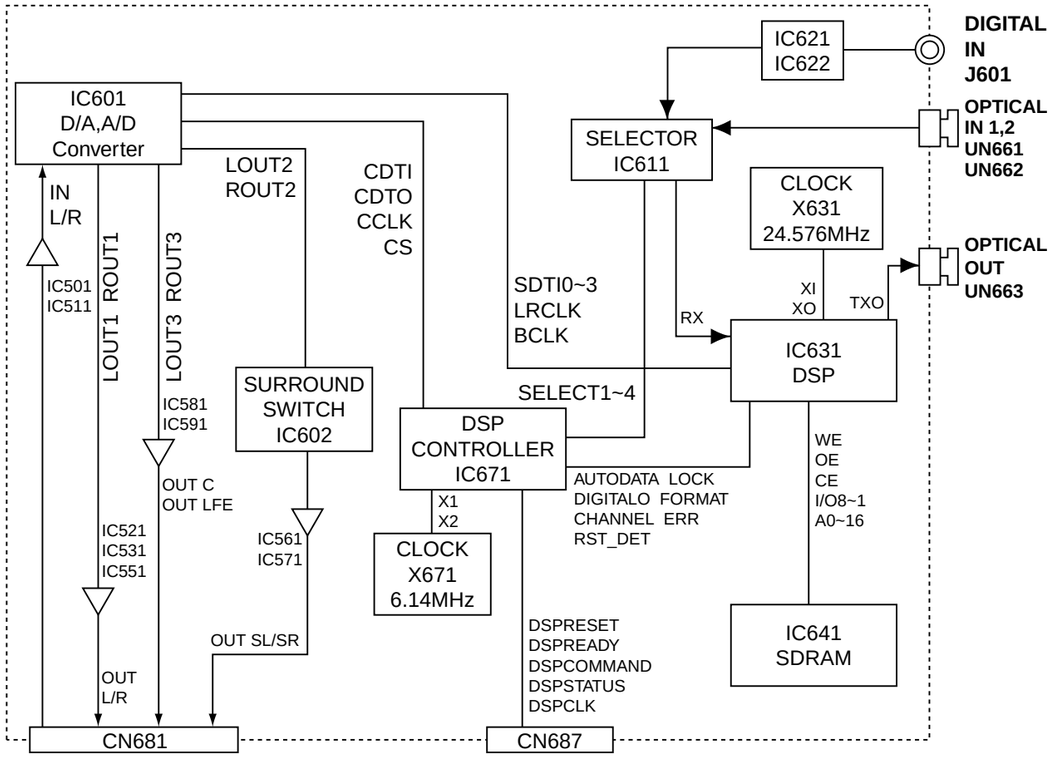
■ System control & Video I/O section



■ Power amplifier & Audio I/O section



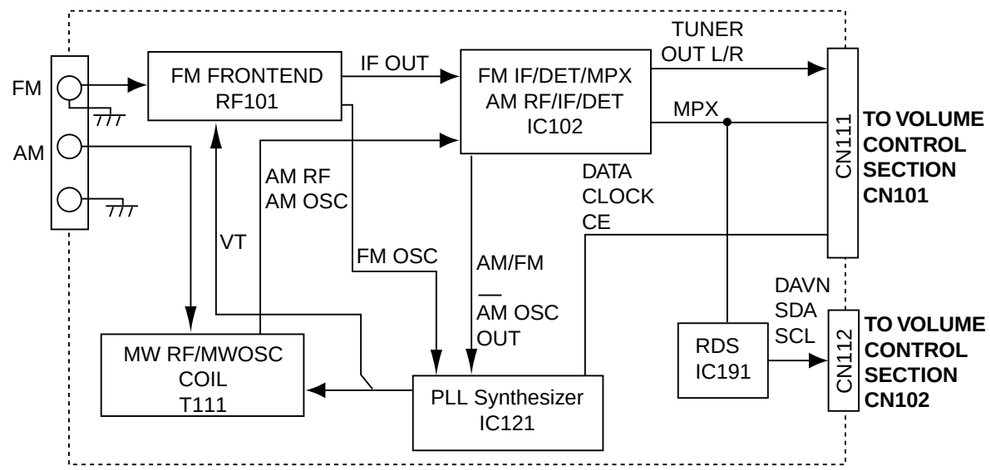
■ DSP Section



TO VOLUME CONTROL SECTION CN501

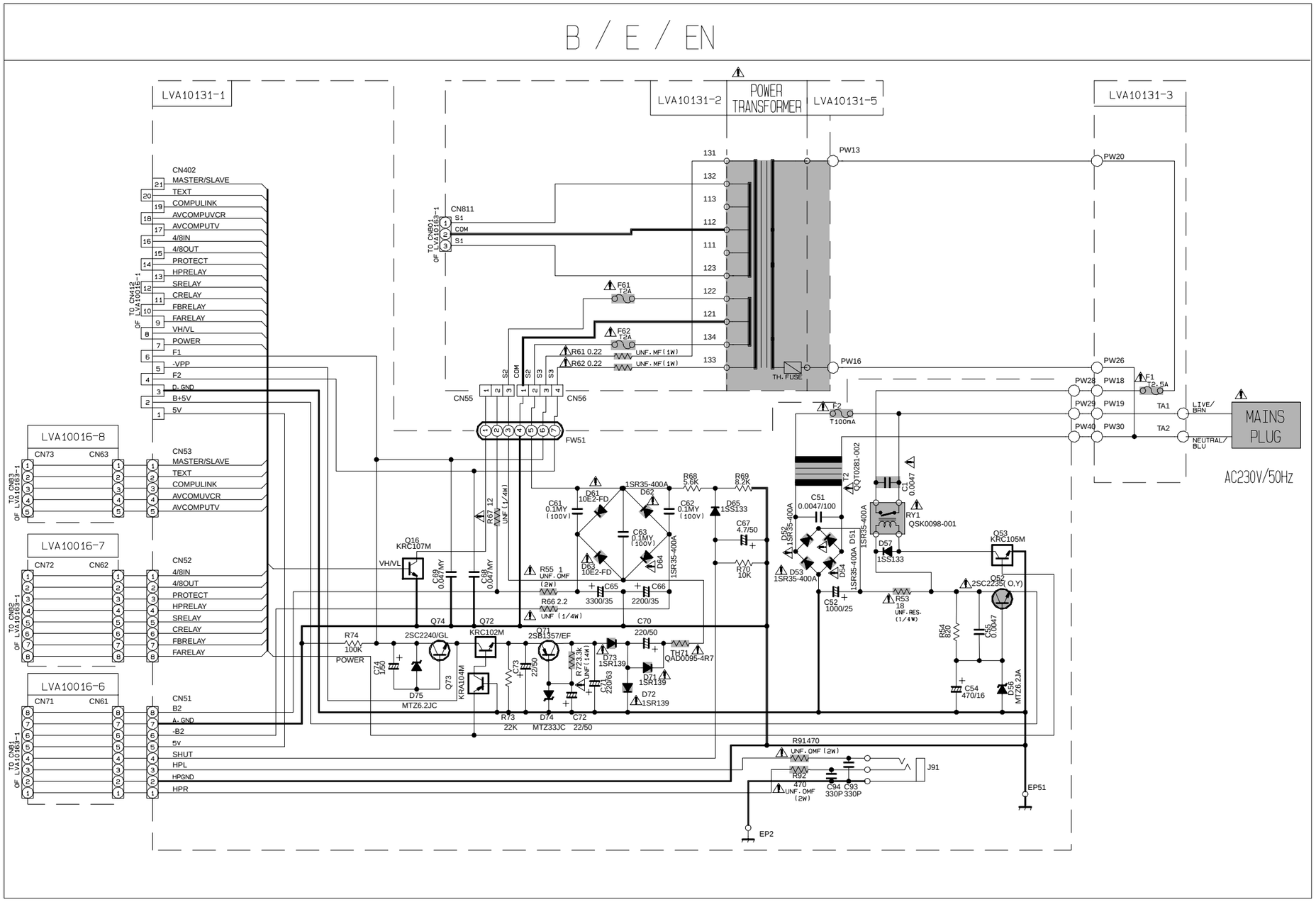
TO VOLUME CONTROL SECTION CN601

■ Tuner section



Standard schematic diagrams

■ Power supply section



VERSION CODES	
EN:	NORDIC COUNTRIES
E:	CONTINENTAL EUROPE
B:	U.K.
US:	SINGAPORE
UT:	TAIWAN
UF:	CHINA
A:	AUSTRALIA
U:	UNIVERSAL EXCEPT ALL OF ABOVES

SHEET NUMBER	CIRCUIT DISCRIPTION
1/8	PRIMARY / RECTIFIRE
2/8	VOLUME (FRONT/CENTER/REAR ch.) / SEA / SOURCE SELECT IC
3/8	AUDIO AMP (FRONT ch.) / SPEAKER TERMINAL (FRONT ch.) / REGULATOR / RECTIFIRE
4/8	AUDIO AMP (CENTER/REAR ch.) / SPEAKER TERMINAL (CENTER/REAR ch.)
5/8	AUDIO SIGNAL INPUT TERMINAL / SOURCE SELECT IC / SYSTEMCONTROL SIGNAL TERMINAL
6/8	VIDEO SIGNAL INPUT TERMINAL / SOURCE SELECT IC
7/8	USER CONTROL KEYS / SYSTEMCONTROL LSI / FL DISPLAY
8/8	SURROUND IC / DIGITAL SIGNAL INPUT TERMINAL

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

NOTES:
MARK(*) IS TO SHOW DEVIATION IN VERSIONS.
DETAILS ARE EXPLAINED NEAR THE MARK.

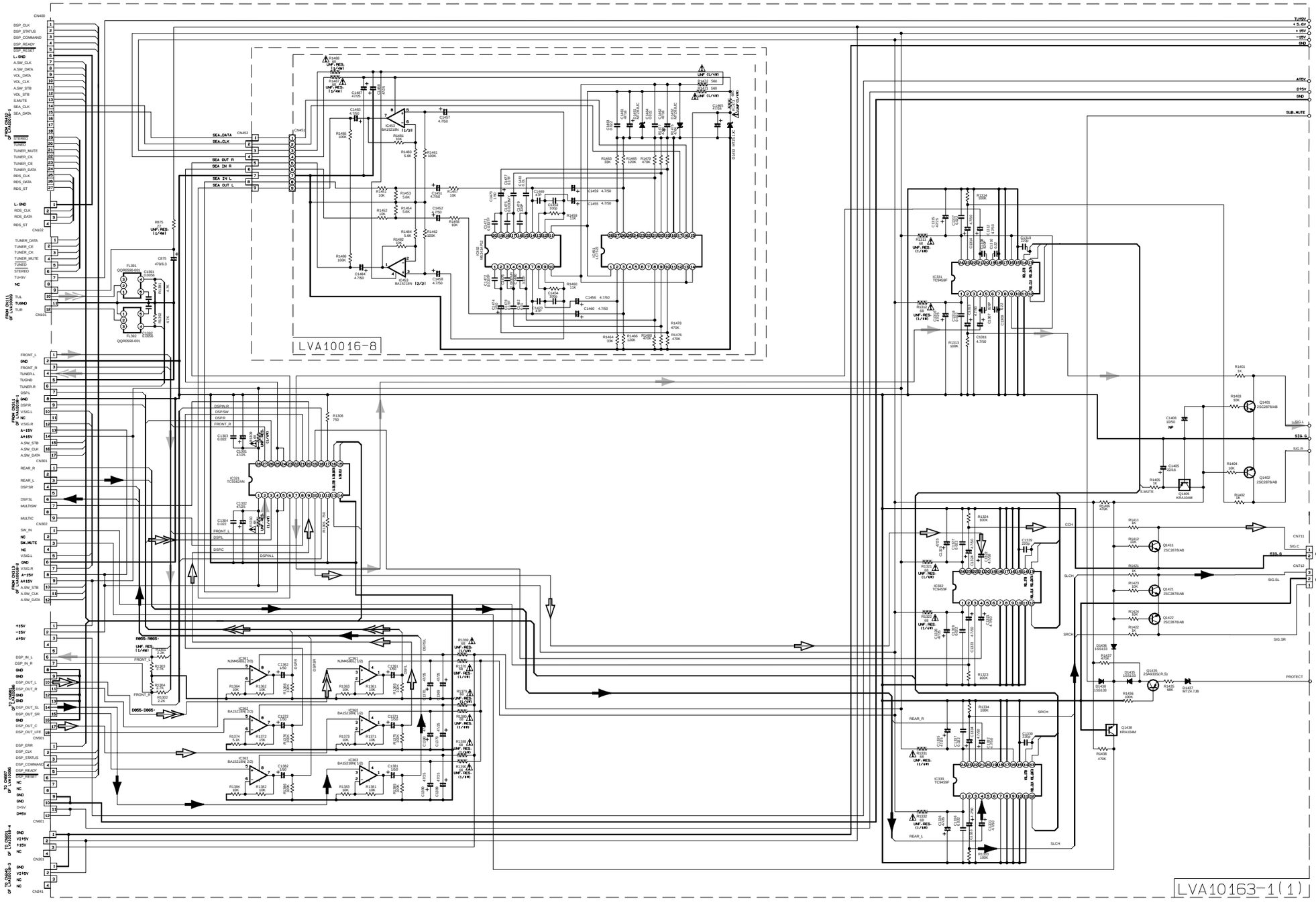
EXPLANATION OF OVERALL OF SCHEMA.
RX-7000VBKU/RX-7001VGD/RX-7000PBK/RX-7001PGD/RX-7000RBK

MODEL

RX-7000VBK / RX-7001PGD / RX-7000RBK

SHEET 1

■ Main amplifier section 1/2



AUDIO SIGNAL
TUNER SIGNAL
SURROUND SIGNAL
CENTER SIGNAL
FRONT SIGNAL

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

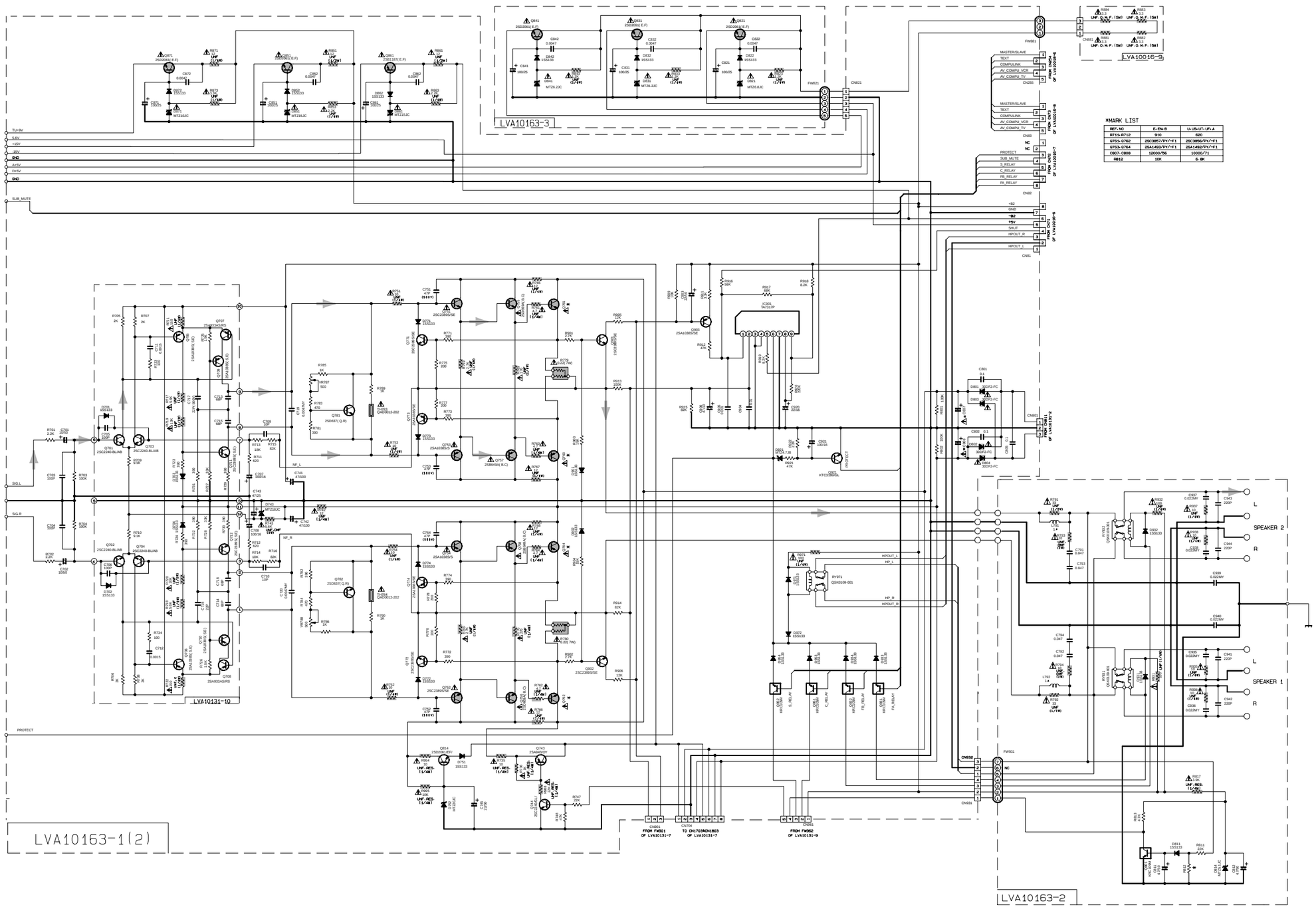
MODEL

RX-7000VBK / RX-7001PGD / RX-7000RBK

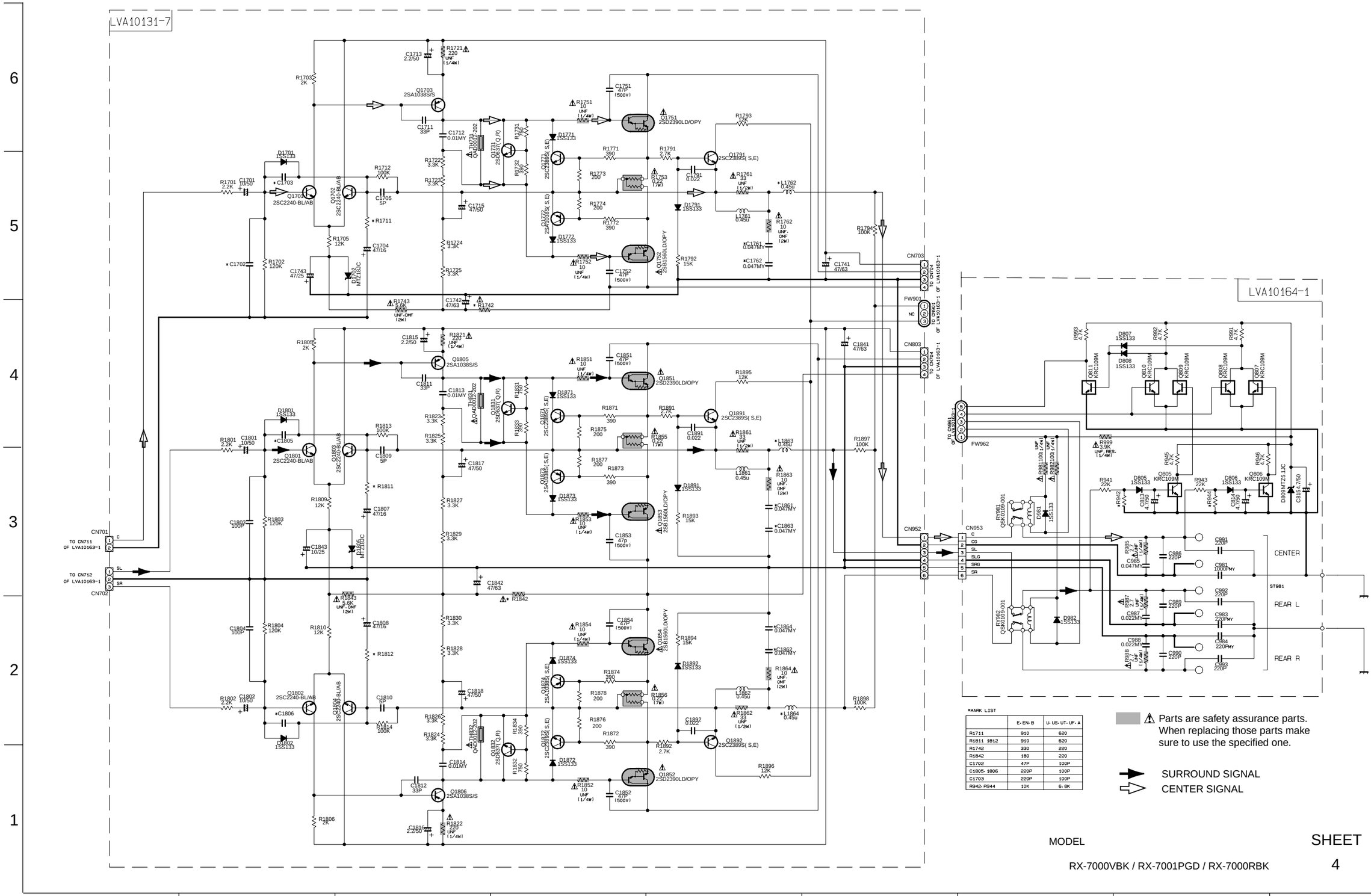
SHEET

2

■ Main amplifier section 2/2



■ Center / Rear amplifier section



*MARK LIST

	E-EN-B	U-US-UT-UF-A
R1711	910	620
R1811 1812	910	620
R1742	330	220
R1842	180	220
C1702	47P	100P
C1805- 1806	220P	100P
C1703	220P	100P
R942-R944	10K	6.8K

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

SURROUND SIGNAL

CENTER SIGNAL

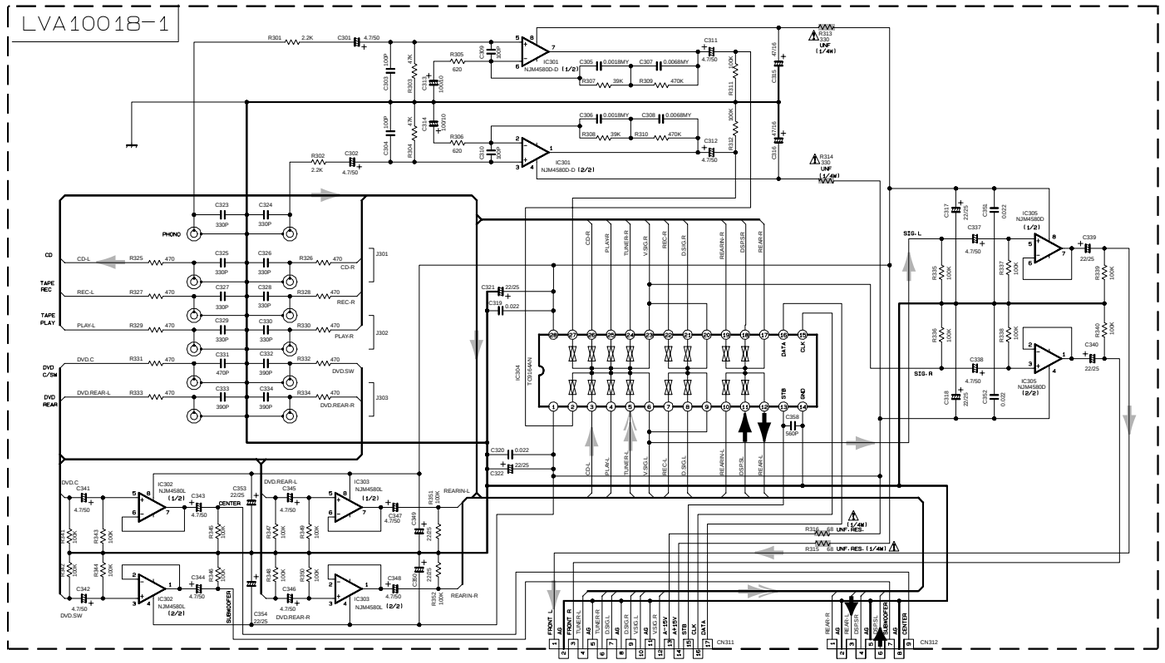
MODEL

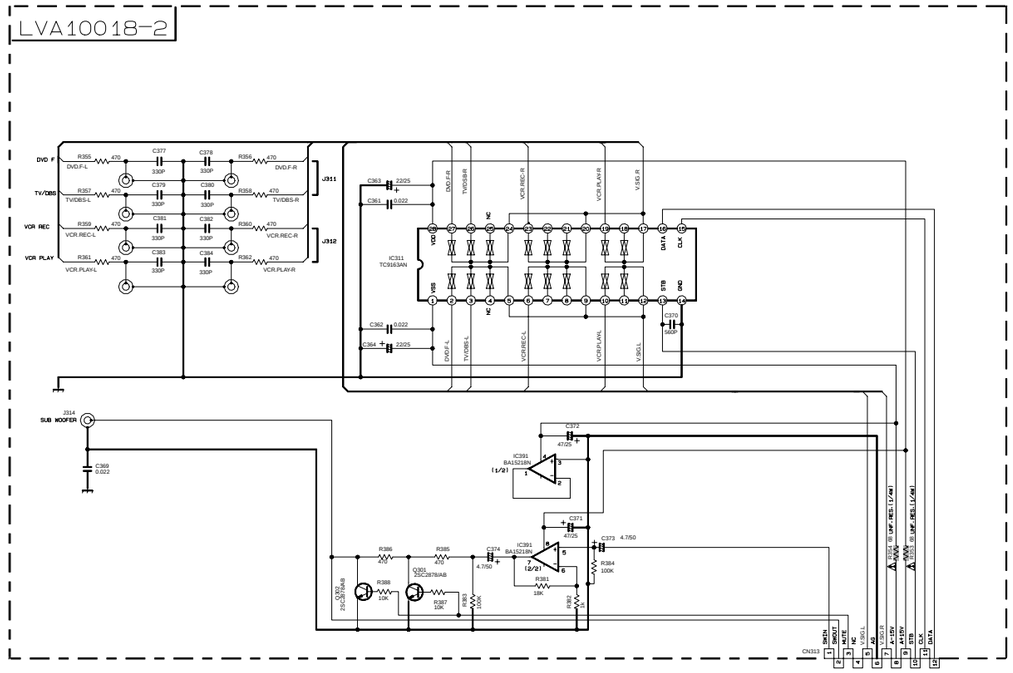
RX-7000VBK / RX-7001PGD / RX-7000RBK

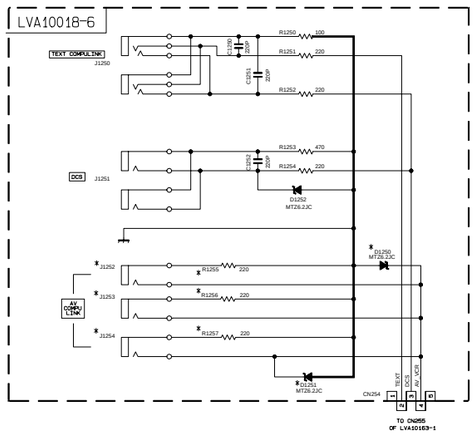
SHEET

4

■ Audio signal section







*MARK LIST

REF. NO	E, EN, Be, A	U, US, UT, UF
J1252, J1253, J1254	NONE	USED
R1255, R1256, R1257	NONE	USED
D1250	NONE	USED
D1251	NONE	USED

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

CD/AUDIO SIGNAL
TUNER SIGNAL
SURROUND SIGNAL

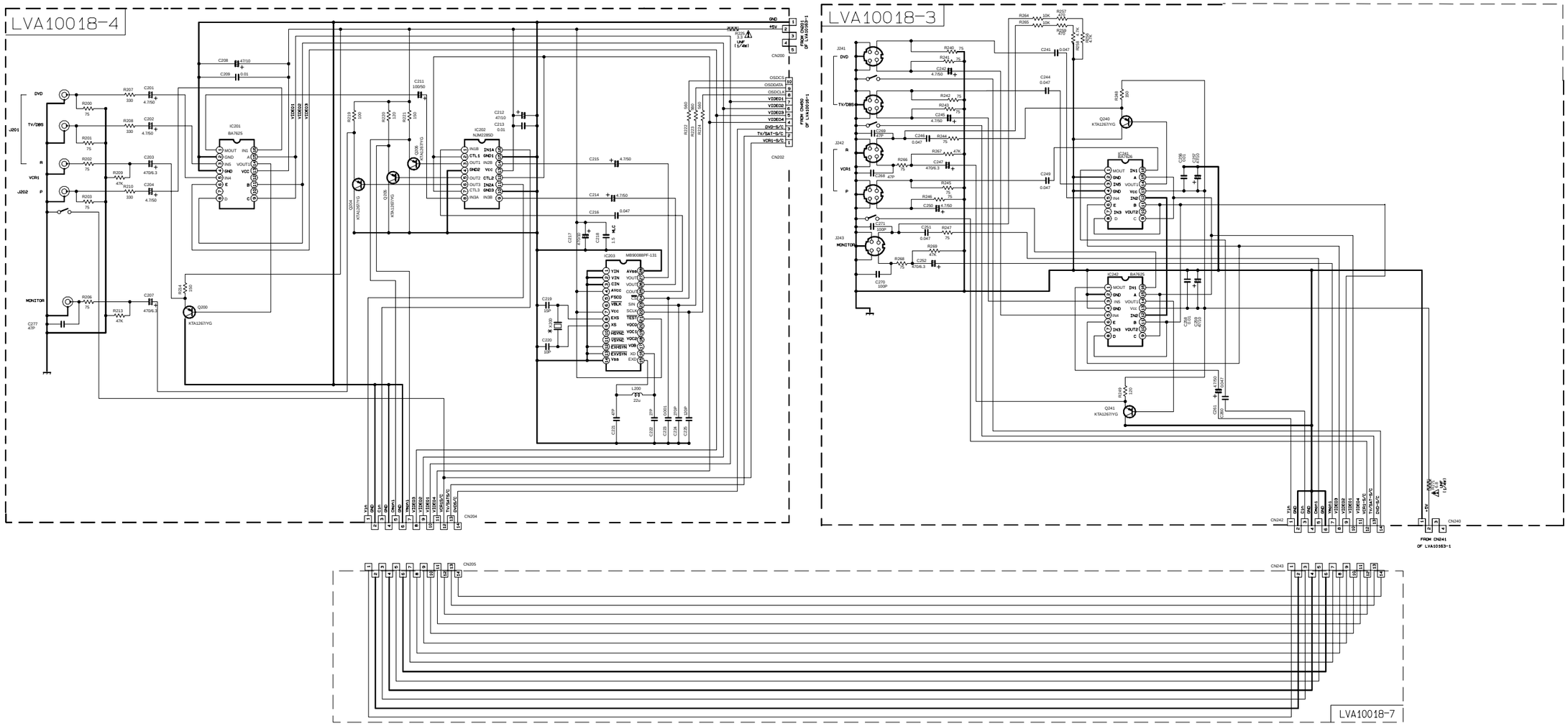
MODEL

RX-7000VBK / RX-7001PGD / RX-7000RBK

SHEET

5

■ Video signal section



⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

∗MARK LIST

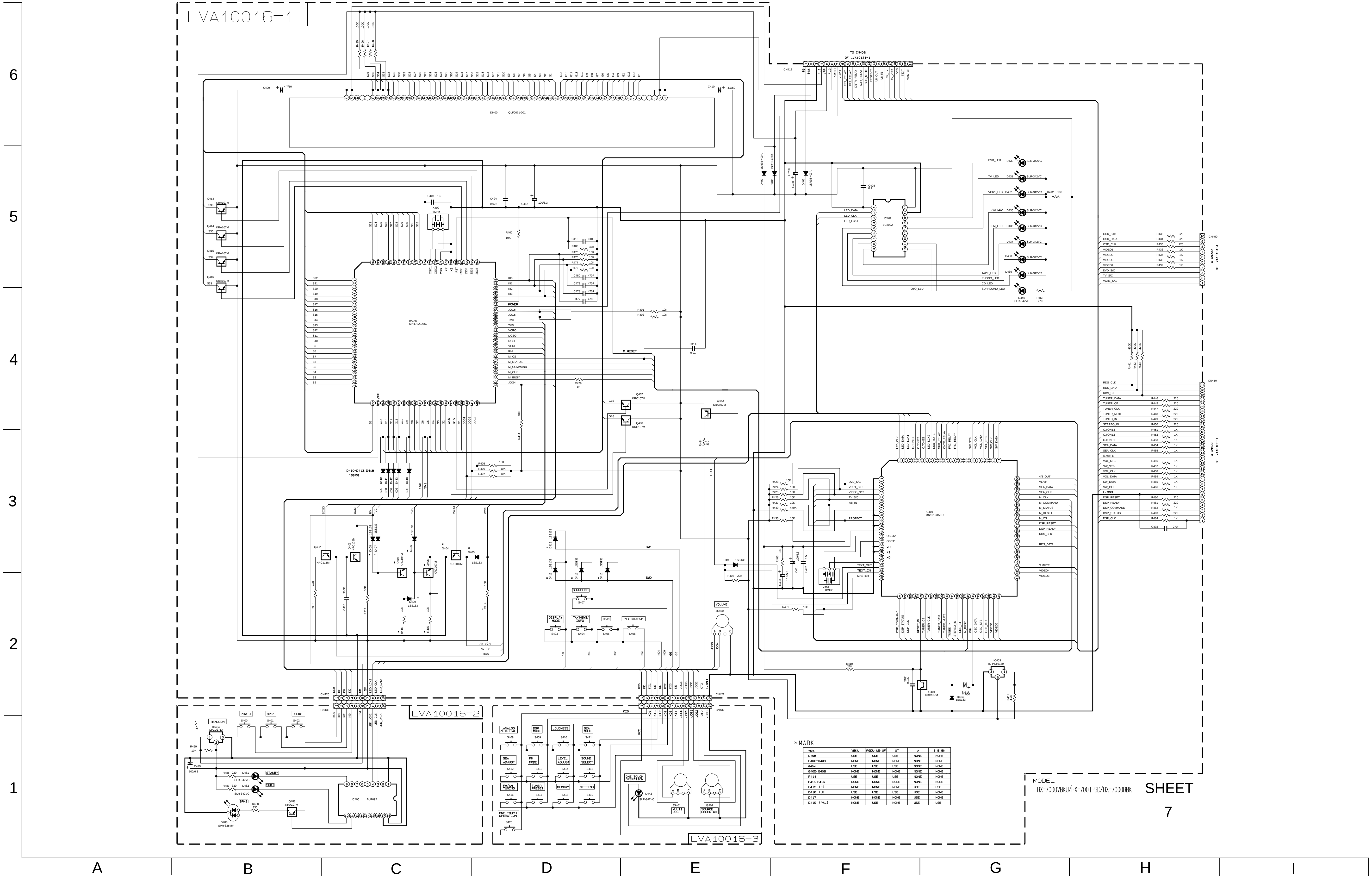
	VBKU, UT	PGDU, B, E, EN, US, UF, A
X200	QAX0260-001Z	QAX0261-001Z

MODEL

RX-700VBKU / RX-7001PGD / RX-7000RBK

SHEET 6

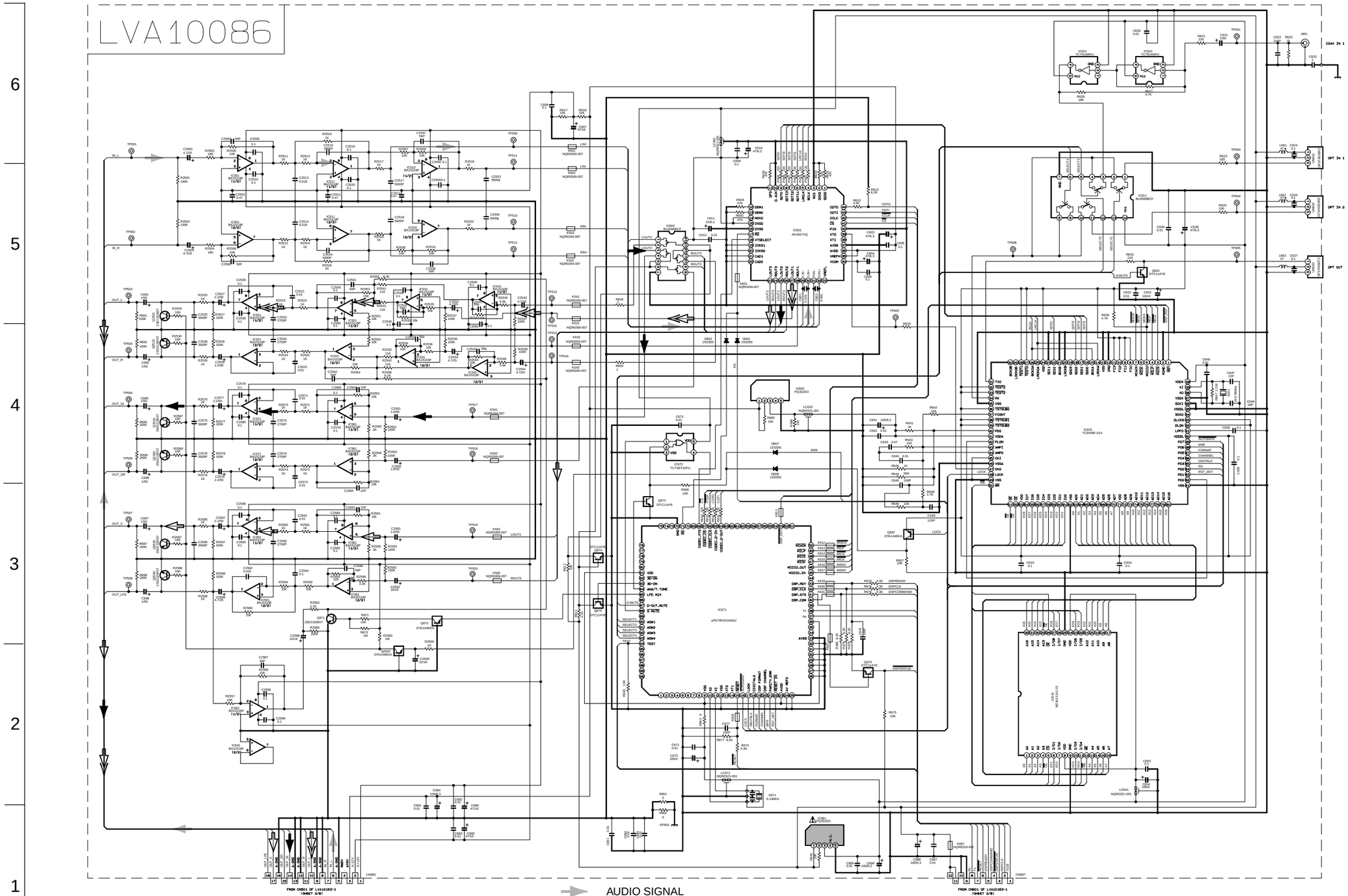
■ FL Display & System control section


LVA10016-1
LVA10016-2
LVA10016-3
DI400 QLF0071-001
IC400 MN173222DG
IC401 MN101C15FDE
IC402 BU2092
IC403 IC-PST9139
IC404 GP1U271X
IC405 BU2092
TO CN402 OF LVA10131-1
TO CN202 OF LVA10131-4
TO CN400 OF LVA10163-1
REMOCON
POWER
SPK1
SPK2
STANBY
ANALOG /DIGITAL
DSP MODE
LOUDNESS
SEA MODE
SEA ADJUST
FM MODE
LEVEL ADJUST
SOUND SELECT
FM/AM TUNING
TUNER PRESET
MEMORY
SETTING
ONE TOUCH OPERATION
SURROUND
DISPLAY MODE
TA/NEWS/ INFO
EON
PTY SEARCH
VOLUME
MULTI JOG
SOURCE SELECTOR
MODEL
RX-7000VBKU/RX-7001PGD/RX-7000RBK
SHEET
7

*MARK

VER.	VBKU	PGDU・US・UF	UT	A	B・E・EN
D405	USE	USE	USE	NONE	NONE
D406-D409	NONE	NONE	NONE	NONE	NONE
Q404	USE	USE	USE	NONE	NONE
Q405, Q406	NONE	NONE	NONE	NONE	NONE
R414	USE	USE	USE	NONE	NONE
R415, R416	NONE	NONE	NONE	NONE	NONE
D415 (E)	NONE	NONE	NONE	USE	USE
D416 (U)	USE	USE	USE	USE	NONE
D417	NONE	NONE	NONE	USE	NONE
D419 (PAL)	NONE	USE	NONE	USE	USE

■ DSP section



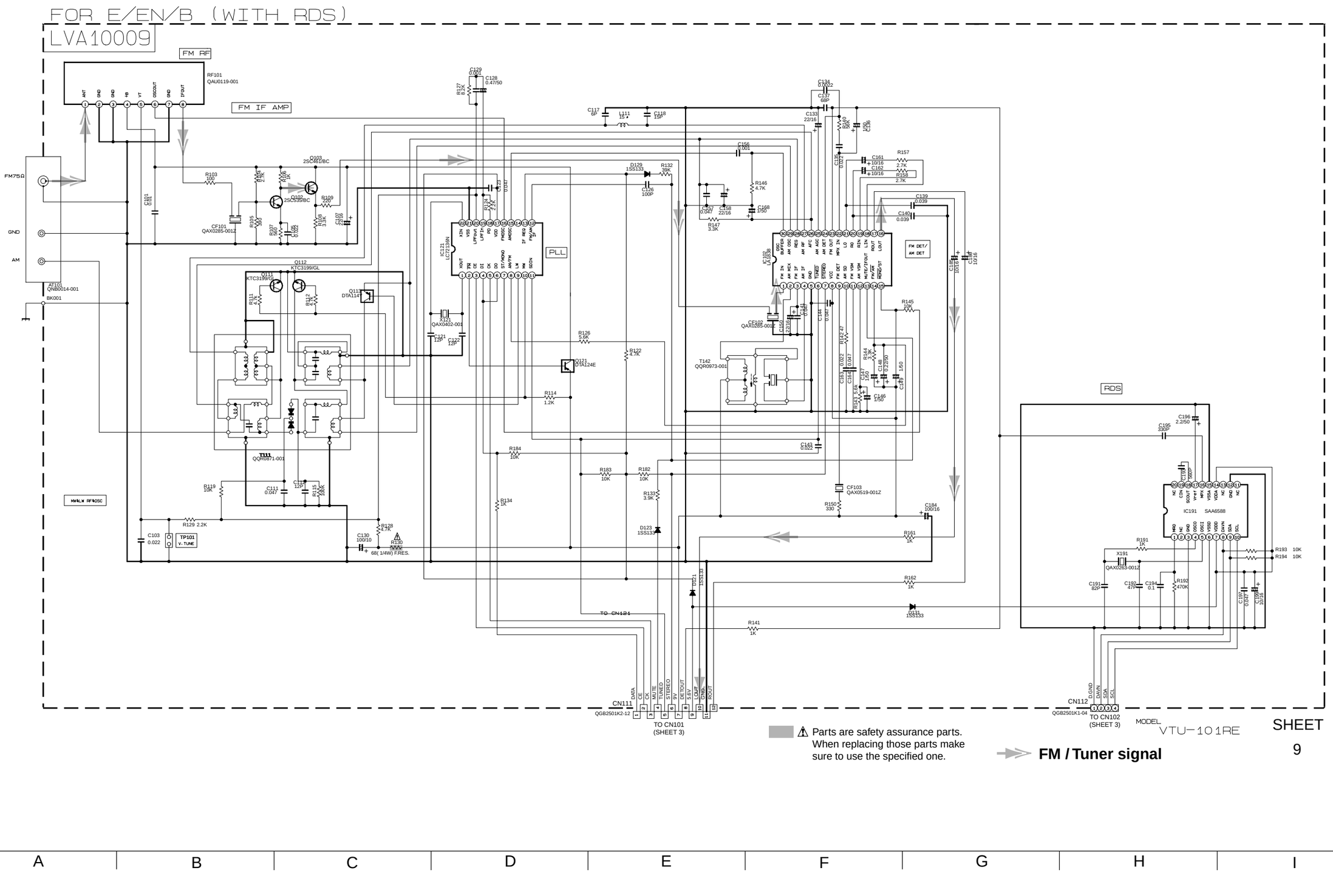
AUDIO SIGNAL
SURROUND SIGNAL
CENTER SIGNAL
FRONT SIGNAL

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

MODEL
RX-7000VBK / RX-7001PGD / RX-7000RBK

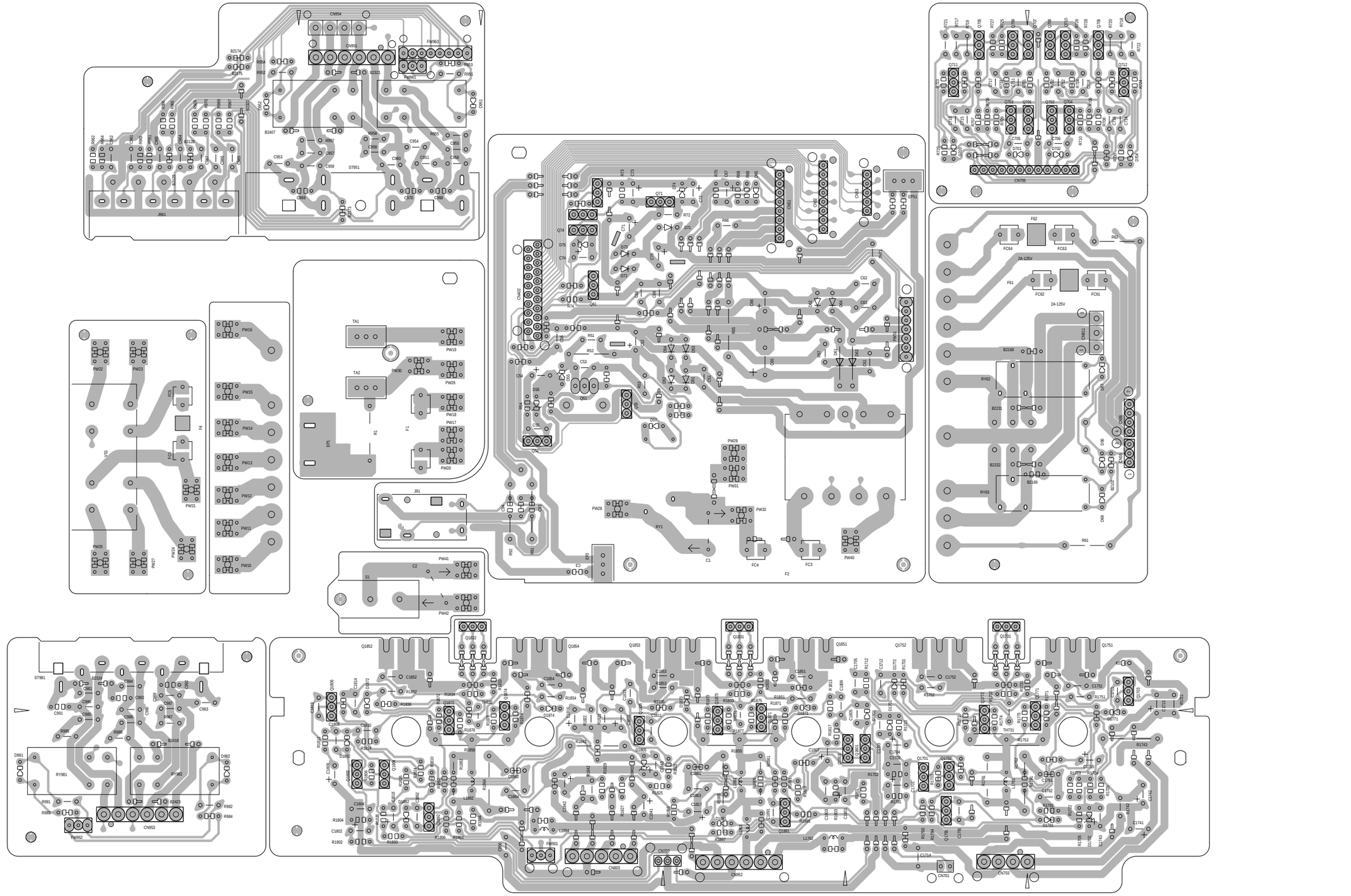
SHEET
8

■ Tuner section

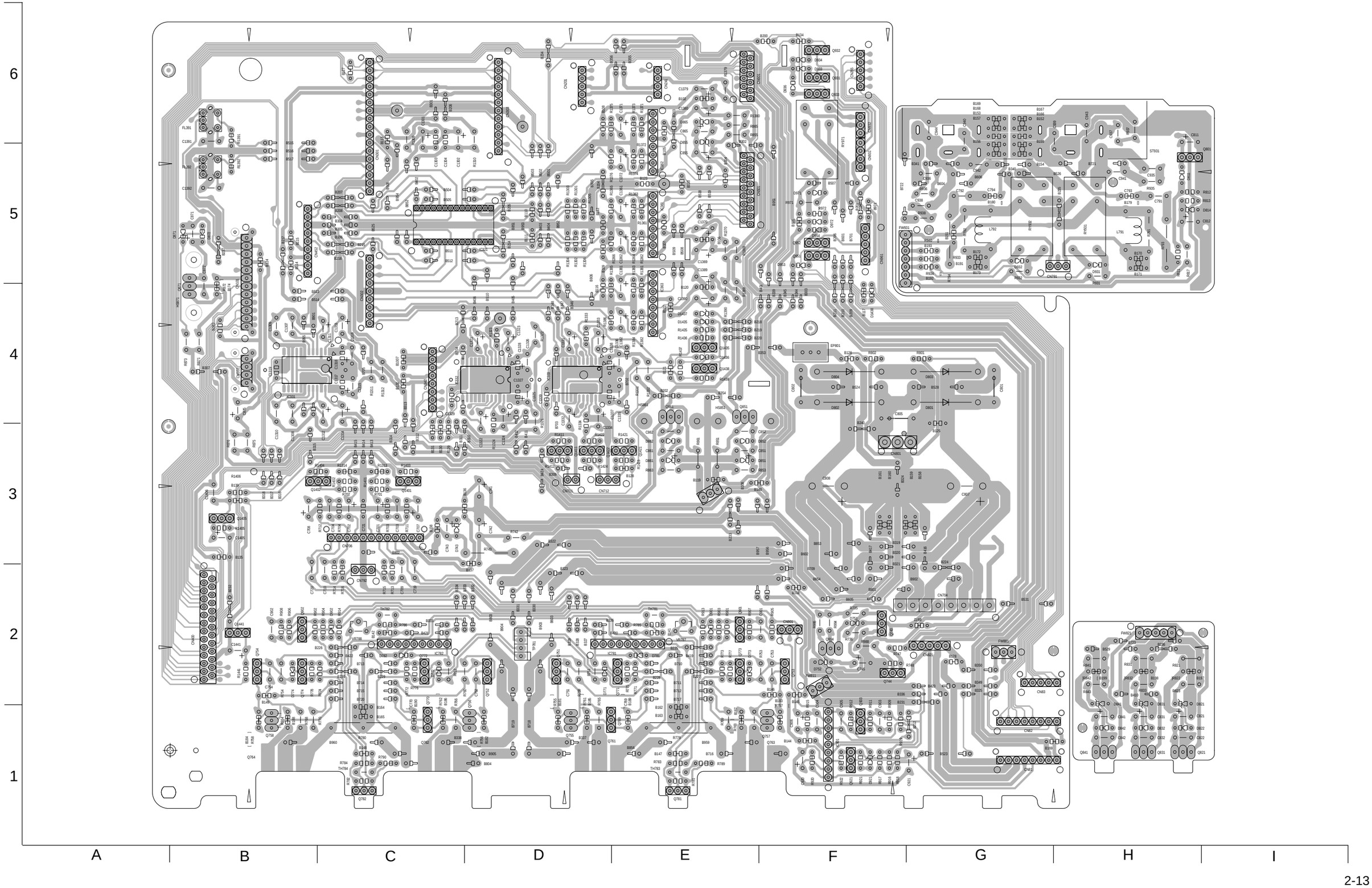


Printed circuit boards

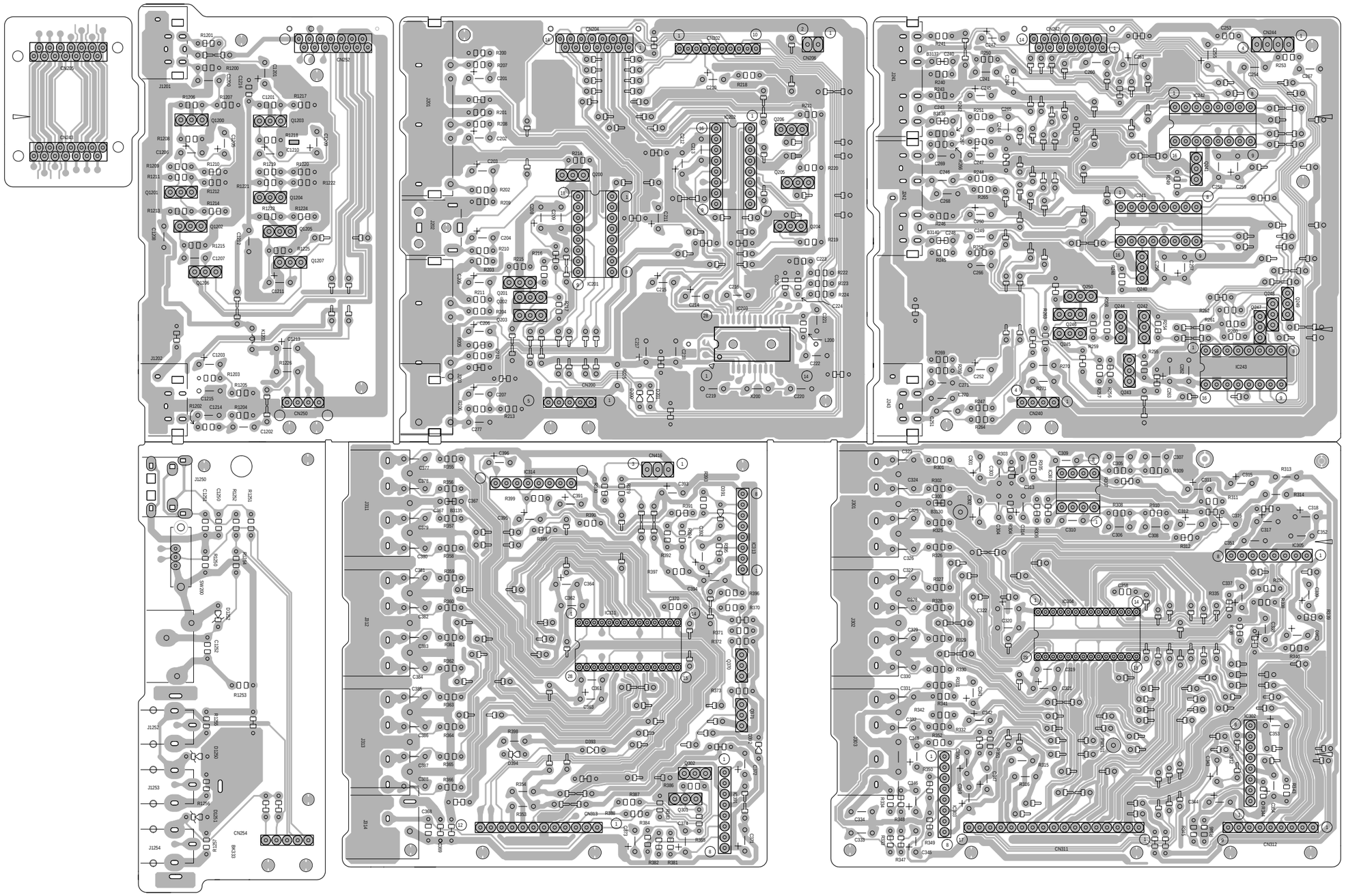
■Power amp. & Power spply board



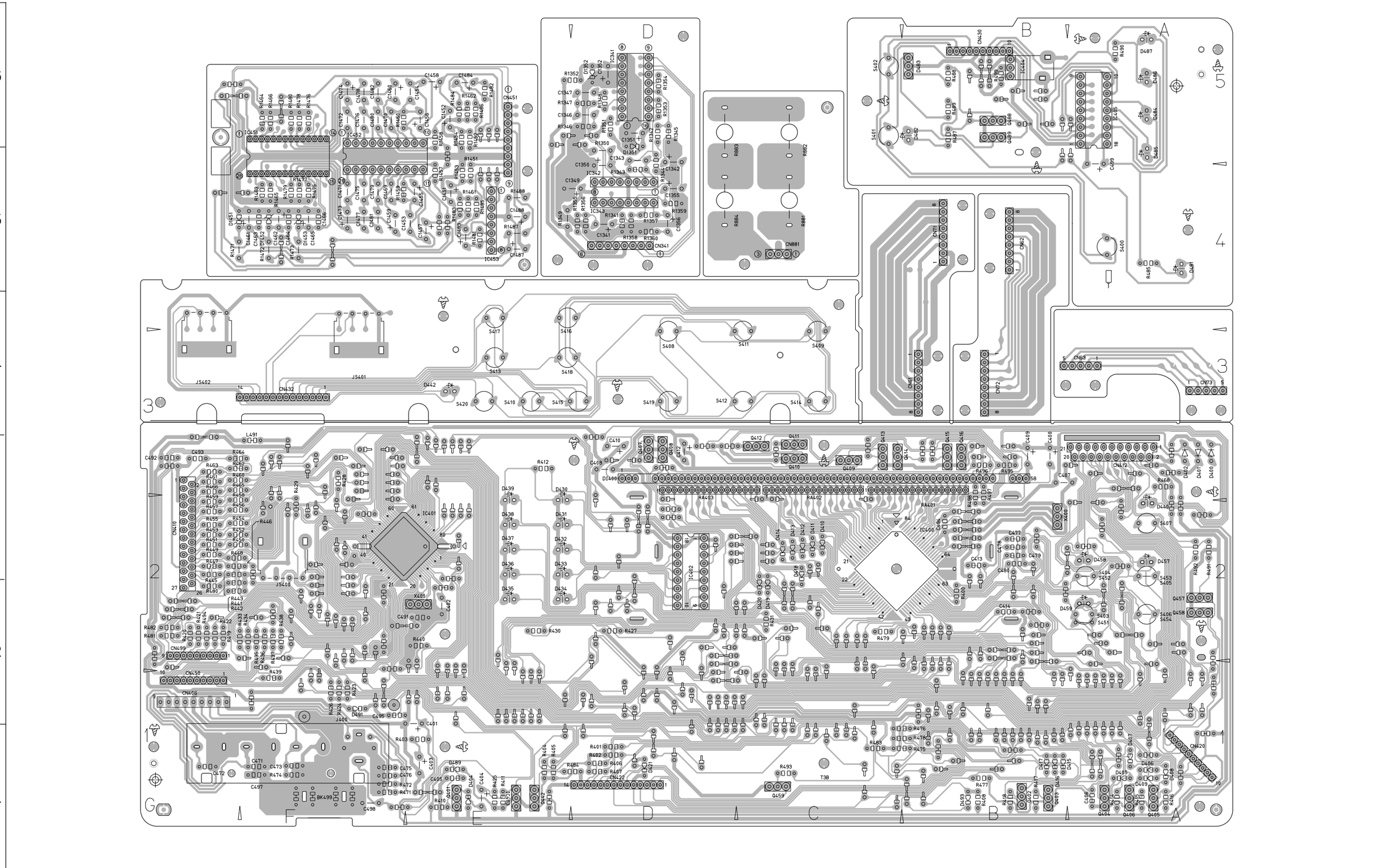
■ Main board



■ Input / output board

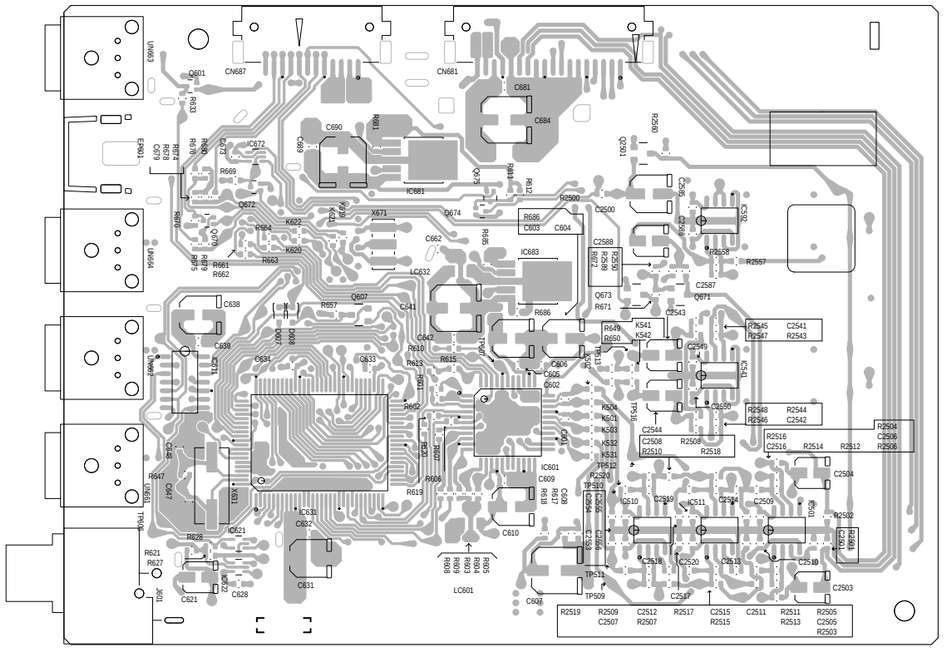


■ FL Display & System control board

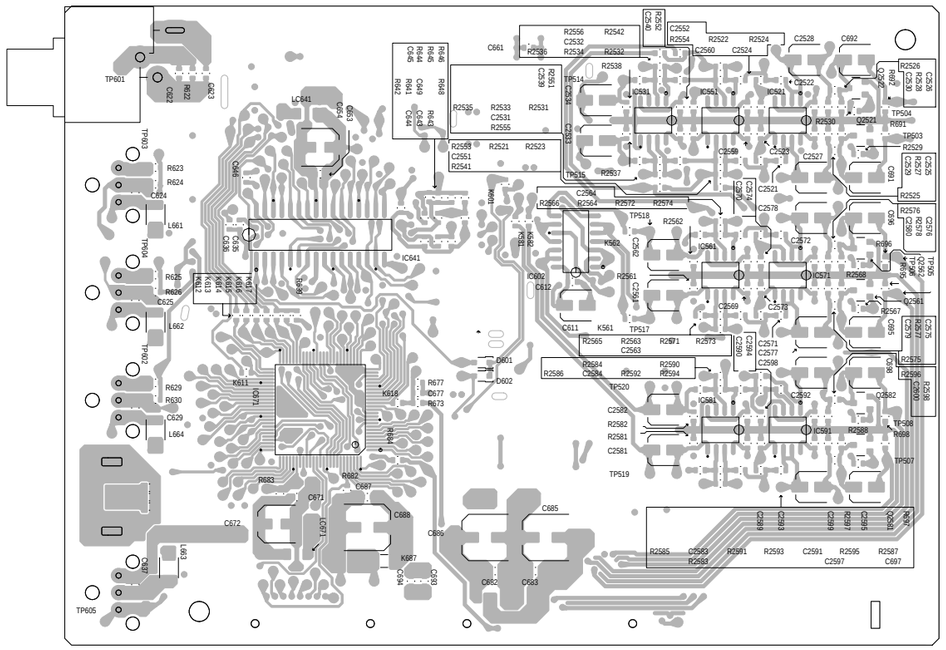


■ DSP board

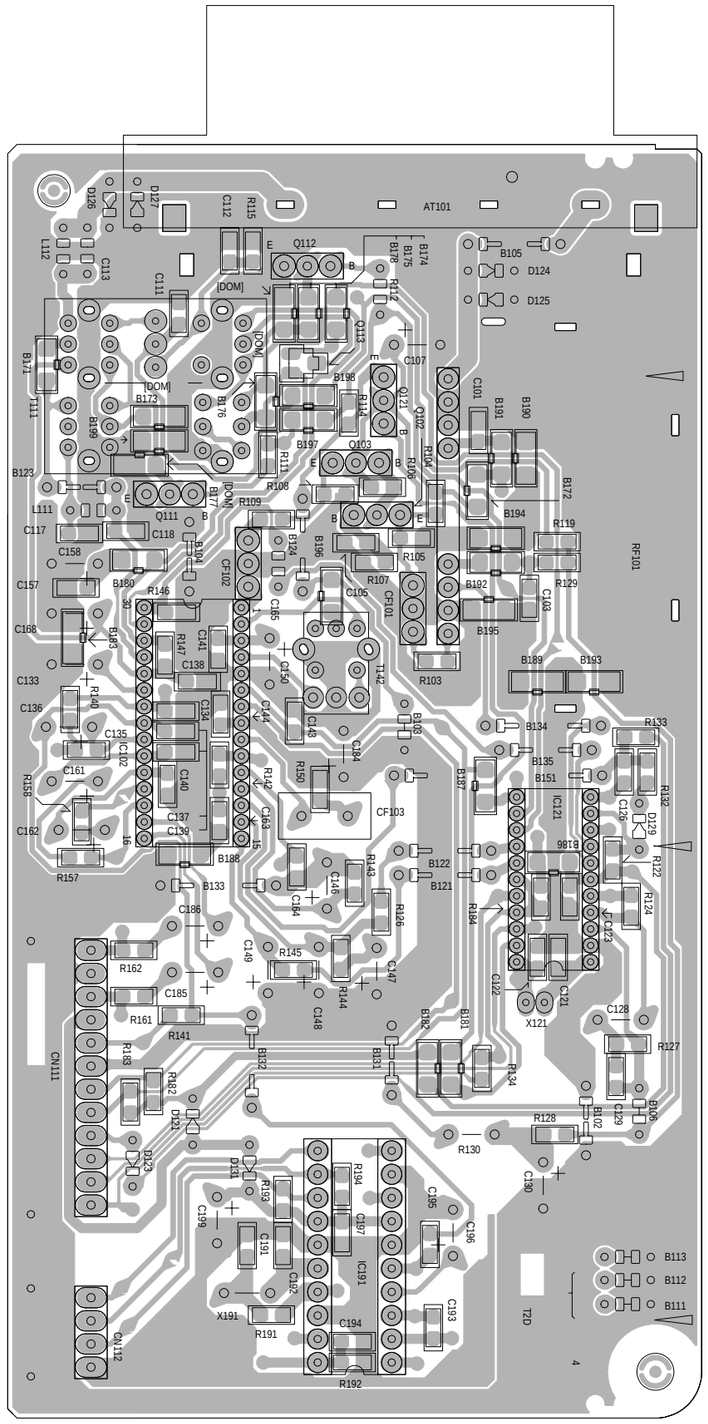
Forward side



Reverse side



■ Tuner board



PARTS LIST

[RX-7000RBK]

* All printed circuit boards and its assemblies are not available as service parts.

Area suffix

E ---------- Continental Europe
EN ---------- Northern Europe

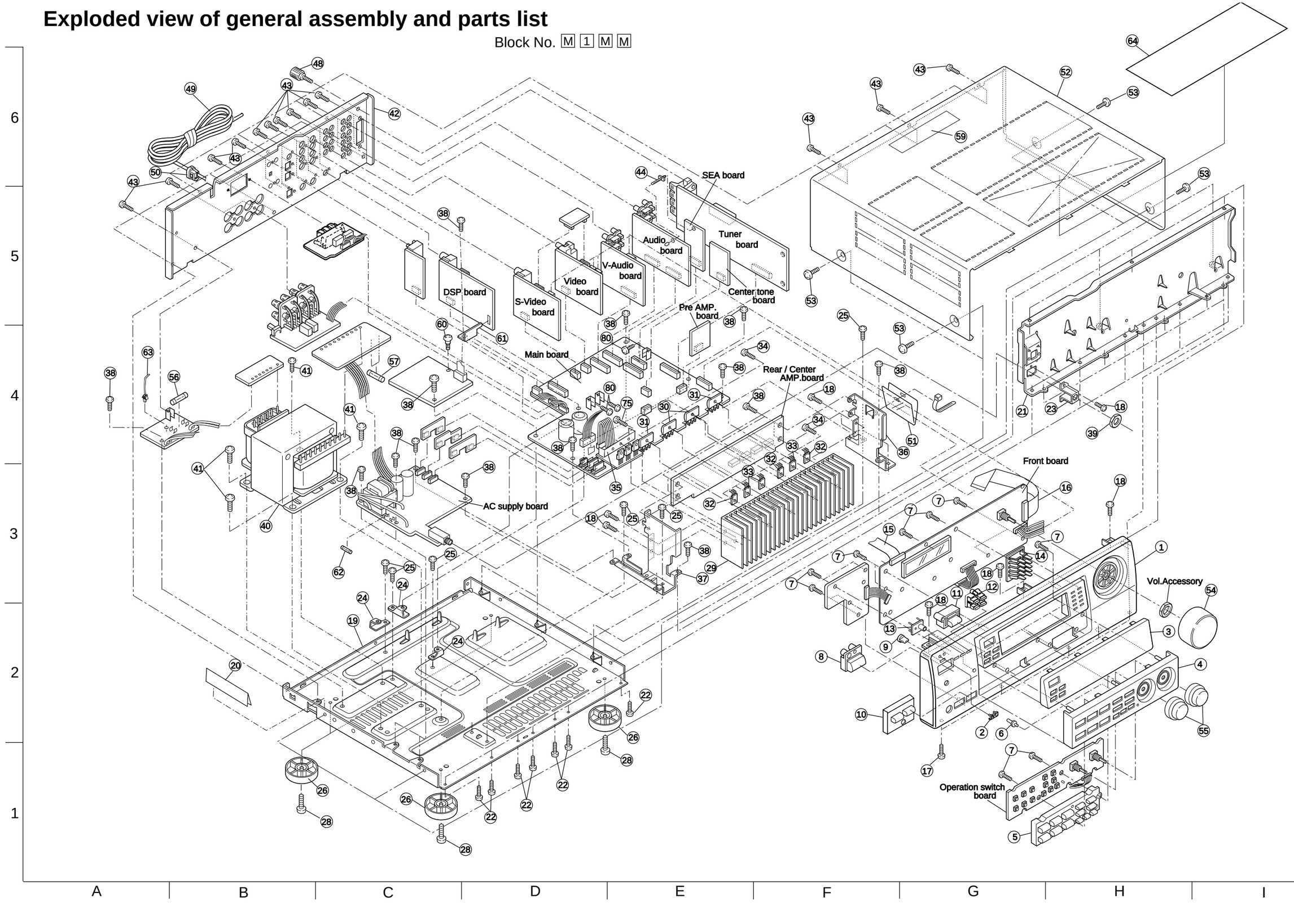
- Contents -

Exploded view of general assembly and parts list ---------- 3-3
Electrical parts List ---------- 3-5
Packing materials and accessories parts list ---------- 3-23

<<MEMO>>

Exploded view of general assembly and parts list

Block No. M 1 M M



■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV10018-032A	FRONT PANEL	1		
	2	VJD5429-001SS	JVC MARK	1		
	3	LV20031-015A	LENS	1		
	4	LV20032-011A	FRONT ESC	1		
	5	LV20034-001A	PUSH BUTTON	1		
	6	LV40099-001A	INDICATOR	1		
	7	QYSDSF2608Z	SCREW	18		
	8	LV30068-002A	P.BUTTON(POWER)	1		
	9	FSJD4001-002	INDICATOR	1	POWER	
	10	LV30069-001A	P.BUTTON ASSY	1		
	11	LV30071-001A	P.BUTTON ASSY	1	DOLBY	
	12	LV30067-001A	P.BUTTON(RDS)	1		
	13	E308744-002	REMOTE LENS	1		
	14	LV30073-001A	SOURCE INDICATO	1		
	15	QUQC12-2120CJ	FFC WIRE	1		
	16	QUQC12-2722CJ	FFC WIRE	1		
	17	QYSDSG3008M	SCREW	5	FRONT D	
	18	QYSBSG3008E	T.SCREW	8	FRONT U	
	19	LV10019-002A	CHASSIS BASE	1		
	20	EXO150010H09S11	FELT SPACER	1	FOR C.BASE	
	21	LV10020-001A	FRONT BRACKET	1		
	22	QYSDSG3008E	T.SCREW	7	C.B-F.B	
	23	LE40139-001A	H.P. BKT	1		
	24	E68587-223SM	CB BKT	3		
	25	QYSBST3006E	T.SCREW	10		
	26	QZF6018-001	FOOT	4		
	28	QYSBST3010Z	T.SCREW	4	FOOT	
	29	LV30075-203A	HEAT SINK	1		
⚠	30	2SC3857/PY/-F1	TRANSISTOR	2	Q761 Q762	
⚠	31	2SA1493/PY/-F1	TRANSISTOR	2	Q763 Q764	
⚠	32	2SD2390LD/OPY/	TRANSISTOR	1	Q1751	
⚠		2SD2390LD/OPY/	TRANSISTOR	2	Q1851 Q1852	
⚠	33	2SB1560LD/OPY/	TRANSISTOR	1	Q1752	
⚠		2SB1560LD/OPY/	TRANSISTOR	2	Q1853 Q1854	
	34	E73525-003SS	SCREW	14	TR	
	35	LV41603-001A	LEAF SPRING	1		
	36	LV20035-001A	H.S BRACKET(R)	1		
	37	LV20036-001A	H.S BRACKET(L)	1		
	38	QYSBSGG3008E	T.SCREW	17		
	39	VKZ4150-001	SPECIAL NUT	1		
⚠	40	QQT0302-001	POWER TRANSF	1	BANDO	
	41	QYSDSTL4008E	SPECIAL SCREW	4	P.TRANS	
	42	LV10021-064A	REAR PANEL	1		
	43	QYSBSGY3008E	SPECIAL SCREW	32		
	44	E302321-001	FASTNER	1	SPACER	
	48	E409257-001	GND TERMINAL	1		
⚠	49	QMP3900-200L	POWER CORD	1		
⚠	50	QHS3771-108	CORD STOPPER	1		

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	51	LV30076-001A	PROTECTOR	1		
	52	LV20038-006A/S/	TOP COVER	1		
	53	E406308-003	SPECIAL SCREW	4		
	54	LV30480-004A	VOL KNOB ASS'Y	1		
	55	LV30481-001A	JOG KNOB ASS'Y	2		
⚠	56	QMF51E2-2R5-J1	FUSE	1	F1	
⚠	57	QMF51E2-2R0-J1	FUSE	2	F61 F62	
	59	E409396-001	CAUTION LABEL	1		
	60	E310243-002	PLASTIC RIVET	1		
	61	LV41240-002A	BRACKET	1		
⚠	62	QMF51E2-R10-J1	FUSE	1	F2	
	63	E307572-001	FASTENER	1		
	64	LV30077-001A	PROTECT SHEET	1		
	75	QYSBSG3008E	T.SCREW	1	TR(LEAF)	
	80	QYSBSG3008E	T.SCREW	3		

■ **Electrical parts list (Main board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	FW881	QUM133-26DGZ4	PARA RIBON WIRE		
	FW931	QUM137-16DGZ4	PARA RIBON WIRE		
	HL331	VYH7653-002	IC HOLDER		
	HL332	VYH7653-002	IC HOLDER		
	HL333	VYH7653-002	IC HOLDER		
	HS851	E70306-001	HEAT SINK		
	HS861	E70306-001	HEAT SINK		
	HS871	E70306-001	HEAT SINK		
	IC321	TC9162AN	IC		
	IC331	TC9459F	IC		
	IC332	TC9459F	IC		
	IC333	TC9459F	IC		
	IC361	NJM4580L	IC		
	IC362	BA15218N	IC		
	IC363	BA15218N	IC		
	IC901	TA7317P	IC		
	L 791	QQLZ003-1R0	INDUCTOR		
	L 792	QQLZ003-1R0	INDUCTOR		
	O 743	2SA965/OY/-T	TRANSISTOR		
	O 744	2SC2240/GL/-T	TRANSISTOR		
⚠	O 751	2SC2389S/SE/-T	TRANSISTOR		
⚠	O 752	2SC2389S/SE/-T	TRANSISTOR		
⚠	O 753	2SA1038S/S/-T	TRANSISTOR		
⚠	Q 754	2SA1038S/S/-T	TRANSISTOR		
⚠	O 755	2SD669A/BC/	TRANSISTOR		
⚠	O 756	2SD669A/BC/	TRANSISTOR		
⚠	O 757	2SB649A/BC/	TRANSISTOR		
⚠	O 758	2SB649A/BC/	TRANSISTOR		
	Q 771	2SC2389S/SE/-T	TRANSISTOR		
	O 772	2SC2389S/SE/-T	TRANSISTOR		
	O 773	2SA1038S/SE/-T	TRANSISTOR		
	O 774	2SA1038S/SE/-T	TRANSISTOR		
	O 781	2SD637/QR/	TRANSISTOR		
	Q 782	2SD637/QR/	TRANSISTOR		
	C 701	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 702	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 703	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 704	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 707	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 708	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 709	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 710	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 719	QFLC1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
	C 720	QFLC1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
	C 741	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V	
	C 742	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V	
	C 743	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 745	QEKC1HM-226Z	E.CAPACITOR	22MF 20% 50V	
	C 751	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 752	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 753	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 754	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 791	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 792	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 793	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 794	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 801	QFN82CK-104	M.CAPACITOR	.10MF 10% 160V	
	C 802	QFN82CK-104	M.CAPACITOR	.10MF 10% 160V	
	C 805	QFN82CK-104	M.CAPACITOR	.10MF 10% 160V	
⚠	C 807	QEZ0506-129	E CAPACITOR	12000MF	
⚠	C 808	QEZ0506-129	E CAPACITOR	12000MF	
	C 811	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 812	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C 821	QEHR1EM-107Z	E.CAPACITOR	100MF 20% 25V	
	C 822	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C 831	QEHR1EM-107Z	E.CAPACITOR	100MF 20% 25V	
	C 832	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C 841	QEHR1EM-107Z	E.CAPACITOR	100MF 20% 25V	
	C 842	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C 851	QEHR1EM-107Z	E.CAPACITOR	100MF 20% 25V	
	C 852	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C 861	QEHR1EM-107Z	E.CAPACITOR	100MF 20% 25V	
	C 862	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C 871	QEHR1EM-107Z	E.CAPACITOR	100MF 20% 25V	
	C 872	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C 875	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 903	QER61HM-226Z	E.CAPACITOR	22MF 20% 50V	
	C 904	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C 905	QCB31HK-102Z	C CAPACITOR	1000PF 10% 50V	
	C 906	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 920	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 921	QER61CM-107Z	E.CAPACITOR	100MF 20% 16V	
	C 935	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 936	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 937	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 938	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 939	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 940	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 941	QCS11HJ-221	C CAPACITOR	220PF 5% 50V	
	C 942	QCS11HJ-221	C CAPACITOR	220PF 5% 50V	
	C 943	QCS11HJ-221	C CAPACITOR	220PF 5% 50V	
	C 944	QCS11HJ-221	C CAPACITOR	220PF 5% 50V	
	CN 81	QGB2510J1-08	CONNECTOR		
	CN 82	QGB2510J1-08	CONNECTOR		
	CN 83	QGB2510J1-05	CONNECTOR		
	CN101	QGB2501J1-12	CONNECTOR		
	CN102	QGB2501J1-04	CONNECTOR		
	CN201	QGB2510J1-05	CONNECTOR		
	CN241	QGB2510J1-04	CONNECTOR		
	CN255	QGB2510J1-05	CONNECTOR		
	CN301	QGB2510J1-17	CONNECTOR		
	CN302	QGB2510J1-09	CONNECTOR		
	CN303	QGB2510J1-12	CONNECTOR		
	CN400	QGF1205C1-27	CONNECTOR		
	CN452	QGB2510J1-09	CONNECTOR		
	CN501	QGB1214J3-18S	CONNECTOR		
	CN601	QGB1214J3-12S	CONNECTOR		
	CN704	QGA3901C1-08	8P CONNECTOR		
	CN706	QGB2510J1-12	CONNECTOR		
	CN711	QGA2501C1-02	2P CONNECTOR		
	CN712	QGA2501C1-03	3P CONNECTOR		
	CN801	QJK012-032803	SKT WIRE ASSY		
	CN821	QGD2501C1-05Z	SOCKET		
	CN901	QGD2501C1-03Z	SOCKET		
	CN931	QGD2501C1-04Z	SOCKET		
	CN932	QGD2501C1-03Z	SOCKET		
	CN961	QGD2501C1-05Z	SOCKET		
	C1301	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1302	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1303	QDVB1EZ-223Y	C CAPACITOR		
	C1304	QDVB1EZ-223Y	C CAPACITOR		
	C1309	QFVJ1HJ-224Z	CAPACITOR	.22MF 5% 50V	
	C1310	QFVJ1HJ-224Z	CAPACITOR	.22MF 5% 50V	
	C1311	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1312	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1313	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	

■ **Electrical parts list (Main board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	C1314	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1315	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1316	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1317	QDVB1EZ-223Y	C CAPACITOR		
	C1318	QDVB1EZ-223Y	C CAPACITOR		
	C1319	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1321	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1322	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1323	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1324	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1325	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1326	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1327	QDVB1EZ-223Y	C CAPACITOR		
	C1328	QDVB1EZ-223Y	C CAPACITOR		
	C1329	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1331	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1332	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1333	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1334	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1335	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1336	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1337	QDVB1EZ-223Y	C CAPACITOR		
	C1338	QDVB1EZ-223Y	C CAPACITOR		
	C1339	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1361	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1362	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1369	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1370	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1371	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1372	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1379	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1380	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1381	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1382	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C1389	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1390	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1391	QFLC1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C1392	QFLC1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C1405	QETN1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C1406	QENC1HM-106Z	NP E.CAPACITOR	10MF 20% 50V	
	D 743	MTZJ18C-T2	Z.DIODE		
	D 751	1SS133-T2	SI DIODE		
	D 752	MTZJ20C-T2	Z.DIODE		
	D 771	1SS133-T2	SI DIODE		
	D 772	1SS133-T2	SI DIODE		
	D 773	1SS133-T2	SI DIODE		
	D 774	1SS133-T2	SI DIODE		
⚠	D 801	30DF2-FC	DIODE		
⚠	D 802	30DF2-FC	DIODE		
⚠	D 803	30DF2-FC	DIODE		
⚠	D 804	30DF2-FC	DIODE		
	D 811	1SS133-T2	SI DIODE		
	D 814	MTZJ5.1C-T2	ZENER DIODE		
⚠	D 821	MTZJ6.8C-T2	Z DIODE		
	D 822	1SS133-T2	SI DIODE		
⚠	D 831	MTZJ6.2C-T2	Z DIODE		
	D 832	1SS133-T2	SI DIODE		
⚠	D 841	MTZJ6.2C-T2	Z DIODE		
	D 842	1SS133-T2	SI DIODE		
⚠	D 851	MTZJ15C-T2	Z DIODE		
	D 852	1SS133-T2	SI DIODE		
⚠	D 861	MTZJ15C-T2	Z DIODE		
	D 862	1SS133-T2	SI DIODE		

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	D 871	MTZJ10C-T2	Z.DIODE		
	D 872	1SS133-T2	SI DIODE		
	D 901	1SS133-T2	SI DIODE		
	D 902	1SS133-T2	SI DIODE		
	D 921	MTZJ4.7B-T2	Z DIODE		
	D 931	1SS133-T2	SI DIODE		
	D 932	1SS133-T2	SI DIODE		
	D 933	1SS133-T2	SI DIODE		
	D 934	1SS133-T2	SI DIODE		
	D 953	1SS133-T2	SI DIODE		
	D 954	1SS133-T2	SI DIODE		
	D 971	1SS133-T2	SI DIODE		
	D 972	1SS133-T2	SI DIODE		
	D1435	1SS133-T2	SI DIODE		
	D1436	1SS133-T2	SI DIODE		
	D1437	MTZJ4.7B-T2	Z DIODE		
	D1438	1SS133-T2	SI DIODE		
	EP801	QNZ0136-001Z	EARTH PLATE		
	FL391	QQR0590-001	FILTER		
	FL392	QQR0590-001	FILTER		
	FW811	QUM133-10Z4Z4	PARA RIBON WIRE		
	FW821	QUM135-08DGZ4	FLAT WIRE		
	O 801	KRC109M-T	D.TRANSISTOR		
	O 814	2SD2061/EF/	TRANSISTOR		
⚠	O 821	2SD2061/EF/	TRANSISTOR		
⚠	Q 831	2SD2061/EF/	TRANSISTOR		
⚠	O 841	2SD2061/EF/	TRANSISTOR		
⚠	O 851	2SD2061/EF/	TRANSISTOR		
⚠	O 861	2SB1187/EF/	TRANSISTOR		
⚠	O 871	2SD2061/EF/	TRANSISTOR		
	O 901	2SC2389S/SE/-T	TRANSISTOR		
	Q 902	2SC2389S/SE/-T	TRANSISTOR		
	O 903	2SA1038S/SE/-T	TRANSISTOR		
	O 921	KTC3199/GL/-T	TRANSISTOR		
	O 931	KRC105M-T	D.TRANSISTOR		
	O 932	KRC105M-T	D.TRANSISTOR		
	O 951	KRC105M-T	D.TRANSISTOR		
	O 952	KRC105M-T	D.TRANSISTOR		
	O1401	2SC2878/AB/-T	TRANSISTOR		
	O1402	2SC2878/AB/-T	TRANSISTOR		
	O1405	KRA104M-T	D.TRANSISTOR		
	O1411	2SC2878/AB/-T	TRANSISTOR		
	O1421	2SC2878/AB/-T	TRANSISTOR		
	O1422	2SC2878/AB/-T	TRANSISTOR		
	O1435	2SA933S/RS/-T	TRANSISTOR		
	O1438	KRA104M-T	D.TRANSISTOR		
	R 701	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 702	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 703	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 704	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 711	QRE141J-911Y	C RESISTOR	910 5% 1/4W	
	R 712	QRE141J-911Y	C RESISTOR	910 5% 1/4W	
	R 713	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 714	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 715	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 716	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
⚠	R 735	QRZ9005-100X	F.RESISTOR	10 1/0W	
⚠	R 736	QRJ146J-102X	UNF C.RESISTOR	1.0K 5% 1/4W	
⚠	R 742	QRJ146J-120X	UNF C.RESISTOR	12 5% 1/4W	
⚠	R 743	QRL022J-562	UNF.OMF.RES	5.6K 5% 1/2W	
	R 747	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 748	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
⚠	R 751	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	

■ **Electrical parts list (Main board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	R 752	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
⚠	R 753	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
⚠	R 754	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
⚠	R 759	QRJ146J-272X	UNF C.RESISTOR	2.7K 5% 1/4W	
⚠	R 760	QRJ146J-272X	UNF C.RESISTOR	2.7K 5% 1/4W	
⚠	R 761	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	
⚠	R 762	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	
⚠	R 763	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	
⚠	R 764	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	
⚠	R 765	QRJ146J-120X	UNF C.RESISTOR	12 5% 1/4W	
⚠	R 766	QRJ146J-120X	UNF C.RESISTOR	12 5% 1/4W	
⚠	R 767	QRJ146J-120X	UNF C.RESISTOR	12 5% 1/4W	
⚠	R 768	QRJ146J-120X	UNF C.RESISTOR	12 5% 1/4W	
⚠	R 769	QRJ146J-271X	UNF C.RESISTOR	270 5% 1/4W	
⚠	R 770	QRJ146J-271X	UNF C.RESISTOR	270 5% 1/4W	
	R 771	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 772	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 773	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 774	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 775	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 776	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 777	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 778	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
⚠	R 779	QRZ0196-R22	EMIT.RESISTOR	0.22 7W	
⚠	R 780	QRZ0196-R22	EMIT.RESISTOR	0.22 7W	
	R 781	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 782	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 783	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 784	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 785	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 786	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 789	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 790	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
⚠	R 791	QRJ125J-330	UNF.C.RESISTOR	33 5% 1/2W	
⚠	R 792	QRJ125J-330	UNF.C.RESISTOR	33 5% 1/2W	
⚠	R 793	QRL022J-100	UNF.O.RESISTOR	10 5% 1/2W	
⚠	R 794	QRL022J-100	UNF.O.RESISTOR	10 5% 1/2W	
	R 801	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 802	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 811	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 812	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 813	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
⚠	R 817	QRJ146J-392X	UNF C.RESISTOR	3.9K 5% 1/4W	
⚠	R 823	QRJ146J-122X	UNF C.RESISTOR	1.2K 5% 1/4W	
⚠	R 833	QRJ146J-122X	UNF C.RESISTOR	1.2K 5% 1/4W	
⚠	R 843	QRJ146J-122X	UNF C.RESISTOR	1.2K 5% 1/4W	
⚠	R 851	QRK126J-120X	UNF.C.RESISTOR	12 5% 1/2W	
⚠	R 853	QRJ146J-222X	UNF C.RESISTOR	2.2K 5% 1/4W	
⚠	R 861	QRK126J-120X	UNF.C.RESISTOR	12 5% 1/2W	
⚠	R 863	QRJ146J-222X	UNF C.RESISTOR	2.2K 5% 1/4W	
⚠	R 871	QRJ146J-120X	UNF C.RESISTOR	12 5% 1/4W	
⚠	R 873	QRJ146J-332X	UNF C.RESISTOR	3.3K 5% 1/4W	
⚠	R 875	QRZ9005-220X	F.RESISTOR	22 1/0W	
	R 901	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 902	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 903	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 904	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 905	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R 906	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R 909	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 911	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 912	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 913	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	

⚠	Item	Parts number	Parts name	Remarks	Area
	R 914	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 915	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 916	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 917	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R 918	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R 919	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R 920	QRE141J-224Y	C RESISTOR	220K 5% 1/4W	
	R 921	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 922	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
⚠	R 931	QRJ146J-101X	UNF C.RESISTOR	100 5% 1/4W	
⚠	R 932	QRJ146J-101X	UNF C.RESISTOR	100 5% 1/4W	
⚠	R 935	QRZ9005-100X	F.RESISTOR	10 1/4W	
⚠	R 936	QRZ9005-100X	F.RESISTOR	10 1/4W	
⚠	R 937	QRZ9005-100X	F.RESISTOR	10 1/4W	
⚠	R 938	QRZ9005-100X	F.RESISTOR	10 1/4W	
⚠	R 971	QRJ146J-101X	UNF C.RESISTOR	100 5% 1/4W	
⚠	R 988	QRJ146J-223X	UNF C.RESISTOR	22K 5% 1/4W	
⚠	R 994	QRZ9005-100X	F.RESISTOR	10 1/4W	
⚠	R 995	QRJ146J-103X	UNF C.RESISTOR	10K 5% 1/4W	
	RY931	QSK0109-001	RELAY		
	RY932	QSK0109-001	RELAY		
	RY971	QSK0109-001	RELAY		
	R1301	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1302	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1303	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1304	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1305	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R1306	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
⚠	R1309	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R1310	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R1311	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R1312	QRZ9005-680X	F.RESISTOR	68 1/4W	
	R1313	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1314	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R1321	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R1322	QRZ9005-680X	F.RESISTOR	68 1/4W	
	R1323	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1324	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R1331	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R1332	QRZ9005-680X	F.RESISTOR	68 1/4W	
	R1333	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1334	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1361	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1362	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1363	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1364	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1365	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1366	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R1369	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R1370	QRZ9005-680X	F.RESISTOR	68 1/4W	
	R1371	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1372	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1373	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1374	QRE141J-512Y	C RESISTOR	5.1K 5% 1/4W	
	R1375	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1376	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R1379	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R1380	QRZ9005-680X	F.RESISTOR	68 1/4W	
	R1381	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1382	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1383	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1384	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1385	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	

■ **Electrical parts list (Main board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	R1386	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R1389	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R1390	QRZ9005-680X	F.RESISTOR	68 1/4W	
	R1391	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1392	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1401	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1402	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1403	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1404	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1405	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1406	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1411	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1412	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1421	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1422	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1423	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1424	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1435	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R1436	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1437	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1438	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	ST931	QNB0024-001	SPK.TERMINAL		
⚠	TH783	QAD0012-202	THERMISTOR		
⚠	TH784	QAD0012-202	THERMISTOR		
	TP781	QMV5005-004K	4P PLUG ASSY		
	VR787	QVP0004-501Z	SEMI.V.RESISTOR		
	VR788	QVP0004-501Z	SEMI.V.RESISTOR		

■ **Electrical parts list (Front board)** **Block No. 02**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 400	QEKC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
	C 401	QEKC0JM-107Z	E.CAPACITOR	100MF 20% 6.3V	
	C 402	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 403	QEZ0227-479Z	EDL CAPACITOR	47000MF	
	C 404	QER61HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 405	QDVB1EZ-223Y	C CAPACITOR		
	C 406	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 407	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 408	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 409	QEKC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
	C 410	QEKC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
	C 412	QEKC0JM-107Z	E.CAPACITOR	100MF 20% 6.3V	
	C 413	QDYB1CM-103Y	C.CAPACITOR		
	C 414	QDYB1CM-103Y	C.CAPACITOR		
	C 477	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 478	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 479	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 480	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 492	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 493	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V	
	C 494	QDVB1EZ-223Y	C CAPACITOR		
	C 495	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%	
	C 499	QEKC0JM-107Z	E.CAPASITOR	100MF 20% 6.3V	
	CN 61	QGB2510K1-08	CONNECTOR		
	CN 62	QGB2510K1-08	CONNECTOR		
	CN 63	QGB2510K1-05	CONNECTOR		
	CN 71	QGB2510K1-08	CONNECTOR		
	CN 72	QGB2510K1-08	CONNECTOR		
	CN 73	QGB2510K1-05	CONNECTOR		
	CN410	QGF1205F1-27	CONNECTOR		
	CN412	QGF1210G1-21	CONNECTOR		
	CN420	QJK018-100800	SKT WIRE	(LEFT)	
	CN422	QGA2001F1-14	14P PLUG ASSY		
	CN430	QGA2001F1-10	10P PLUG ASSY		
	CN432	QJK018-140804	SKT WIRE ASSY		
	CN450	QJK021-104000	C-B WIRE ASSY		
	CN451	QGB2510K1-09	CONNECTOR		
	CN881	QGD2501C1-03Z	SOCKET		
	C1451	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1452	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1453	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1454	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1455	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1456	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1457	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1458	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1459	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1460	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1461	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1462	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1463	QDVB1EZ-223Y	C CAPACITOR		
	C1464	QDVB1EZ-223Y	C CAPACITOR		
	C1465	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1469	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C1470	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C1471	QFVJ1HJ-333Z	CAPACITOR	.033MF 5% 50V	
	C1472	QFVJ1HJ-333Z	CAPACITOR	.033MF 5% 50V	
	C1473	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1474	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1475	QFLC1HJ-332Z	M CAPACITOR	3300PF 5% 50V	
	C1476	QFLC1HJ-332Z	M CAPACITOR	3300PF 5% 50V	
	C1477	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C1478	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C1479	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C1480	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C1481	QFVJ1HJ-103Z	TF CAPACITOR	.010MF 5% 50V	
	C1482	QFVJ1HJ-103Z	TF CAPACITOR	.010MF 5% 50V	
	C1483	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1484	QER61HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1487	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1488	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	D 400	1SR35-400A-T5	DIODE		
	D 401	1SR35-400A-T5	DIODE		
	D 402	1SR35-400A-T5	DIODE		
	D 404	1SS133-T2	SI DIODE		
	D 410	RB441Q-40-T2	S.B.DIODE		
	D 411	1SS133-T2	SI DIODE		
	D 412	1SS133-T2	SI DIODE		
	D 413	1SS133-T2	SI DIODE		
	D 414	1SS133-T2	SI DIODE	(RDS)	
	D 415	1SS133-T2	SI DIODE	BAND0(E)	
	D 418	1SS133-T2	SI DIODE		
	D 419	1SS133-T2	SI DIODE	PAL	
	D 430	SLR-342VC-T	LED	(DVD)	
	D 431	SLR-342VC-T	LED	(TV)	
	D 432	SLR-342VC-T	LED	(VCR1)	
	D 435	SLR-342VC-T	LED	(AM)	
	D 436	SLR-342VC-T	LED	(FM)	
	D 437	SLR-342VC-T	LED	(TAPE)	
	D 438	SLR-342VC-T	LED	(PHONO)	
	D 439	SLR-342VC-T	LED	(CD)	
	D 440	SLR-342VC-T	LED	(SURROUND)	
	D 442	SLR-342VC-T	LED	(OTO)	
	D 481	SLR-342VC-T	LED	(STANDBY)	
	D 482	SLR-342VC-T	LED	(SPK1)	
	D 483	SPR-325MVW/L/-T	LED	(SPK2)	
	D 493	1SS133-T2	SI DIODE		
	DI400	QLF0071-001	FL TUBE		
	D1451	MTZJ6.8C-T2	Z DIODE		
	D1452	MTZJ6.8C-T2	Z DIODE		
	D1453	MTZJ5.1C-T2	ZENER DIODE		
	FS400	E3400-444	FELT SPACER		
	FS401	E3400-444	FELT SPACER		
	HL400	VYH7653-001	IC HOLDER		
	HL401	VYH7237-003	IC HOLDER		
	IC400	MN173222DG	IC		
	IC401	MN101C15FDE	IC		
	IC402	BU2092	IC		
	IC403	IC-PST9139-T	IC		
	IC404	GP1U271X	RM RECIVER		
	IC405	BU2092	IC		
	IC451	LC7522	IC		
	IC452	M5243AP12	IC		
	IC453	BA15218N	IC		
	JS400	QSW0502-001	SWITCH		
	JS401	QSW0672-001	ROTARY ENCODER	(MULTI)	
	JS402	QSW0672-001	ROTARY ENCODER	(SOURCE)	
	O 401	KRC107M-T	D.TRANSISTOR		
	Q 402	KRC111M-T	TRANSISTOR		
	O 403	KRC109M-T	D.TRANSISTOR		
	O 407	KRC107M-T	D.TRANSISTOR		
	O 408	KRC107M-T	D.TRANSISTOR		
	O 413	KRA107M-T	D.TRANSISTOR		
	Q 414	KRA107M-T	D.TRANSISTOR		
	O 415	KRA107M-T	D.TRANSISTOR		
	O 416	KRA107M-T	D.TRANSISTOR		

■ **Electrical parts list (Front board)** **Block No. 02**

⚠	Item	Parts number	Parts name	Remarks	Area
	O 442	KRA107M-T	D.TRANSISTOR		
	O 488	KRA107M-T	D.TRANSISTOR		
	R 400	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 401	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 402	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 403	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 404	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 405	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 406	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 407	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 408	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 410	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 411	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 412	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 417	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 418	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 423	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 424	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 425	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 426	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 427	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 430	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 431	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 433	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 434	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 435	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 436	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 437	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 438	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 439	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 440	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 441	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 442	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 443	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 445	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 446	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 447	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 448	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 449	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 450	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 451	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 452	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 453	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 454	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 455	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 456	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 457	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 458	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 459	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 460	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 461	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 462	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 463	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 464	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 465	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 466	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 468	QRE141J-271Y	C RESISTOR	270 5% 1/4W	
	R 475	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 476	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 477	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 478	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 479	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 480	QRE141J-221Y	C RESISTOR	220 5% 1/4W	

⚠	Item	Parts number	Parts name	Remarks	Area
	R 481	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 482	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 483	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 484	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 485	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 487	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 488	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 490	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 495	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 496	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 497	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 498	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 499	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
⚠	R 881	QRZ0209-3R3	RESISTOR	3.3 1/2W	
⚠	R 882	QRZ0209-3R3	RESISTOR	3.3 1/2W	
⚠	R 883	QRZ0209-3R3	RESISTOR	3.3 1/2W	
⚠	R 884	QRZ0209-3R3	RESISTOR	3.3 1/2W	
	R1451	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1452	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1453	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1454	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1457	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1458	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1459	QRE141J-113Y	C RESISTOR	11K 5% 1/4W	
	R1460	QRE141J-113Y	C RESISTOR	11K 5% 1/4W	
	R1461	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1462	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1463	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R1464	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R1465	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1466	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
⚠	R1471	QRJ146J-561X	UNF C.RESISTOR	560 5% 1/4W	
⚠	R1472	QRJ146J-561X	UNF C.RESISTOR	560 5% 1/4W	
⚠	R1473	QRJ146J-681X	UNF C.RESISTOR	680 5% 1/4W	
	R1475	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1476	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1477	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1478	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1479	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1480	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1481	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1482	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1483	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1484	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1485	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1486	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R1487	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R1488	QRZ9005-680X	F.RESISTOR	68 1/4W	
	S 400	QSW0683-001Z	PUSH SWITCH	(POWER)	
	S 401	QSW0683-001Z	PUSH SWITCH	(SPK1)	
	S 402	QSW0683-001Z	PUSH SWITCH	(SPK2)	
	S 403	QSW0683-001Z	PUSH SWITCH	(RDS)	
	S 404	QSW0683-001Z	PUSH SWITCH	(RDS)	
	S 405	QSW0683-001Z	PUSH SWITCH	(RDS)	
	S 406	QSW0683-001Z	PUSH SWITCH	(RDS)	
	S 407	QSW0683-001Z	PUSH SWITCH	(SURROUND)	
	S 408	QSW0683-001Z	PUSH SWITCH	(DIGITAL)	
	S 409	QSW0683-001Z	PUSH SWITCH	(DSP MODE)	
	S 410	QSW0683-001Z	PUSH SWITCH	(LOUDNESS)	
	S 411	QSW0683-001Z	PUSH SWITCH	(SEA MODE)	
	S 412	QSW0683-001Z	PUSH SWITCH	(SEA ADJ)	
	S 413	QSW0683-001Z	PUSH SWITCH	(FM MODE)	
	S 414	QSW0683-001Z	PUSH SWITCH	(ADJUST)	

■ **Electrical parts list (Front board)** **Block No. 02**

⚠	Item	Parts number	Parts name	Remarks	Area
	S 415	QSW0683-001Z	PUSH SWITCH	(S.SELECT)	
	S 416	QSW0683-001Z	PUSH SWITCH	(TUNING)	
	S 417	QSW0683-001Z	PUSH SWITCH	(PRESET)	
	S 418	QSW0683-001Z	PUSH SWITCH	(MEMORY)	
	S 419	QSW0683-001Z	PUSH SWITCH	(SETTING)	
	S 420	QSW0683-001Z	PUSH SWITCH	(OTO)	
	X 400	QAX0112-001Z	RESONATOR		
	X 401	QAX0246-001Z	RESONATOR		

■ **Electrical parts list (Input board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 201	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 202	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 203	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 204	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 207	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 208	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 209	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C 211	QETN1HM-107Z	E CAPACITOR	100MF 20% 50V	
	C 212	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 213	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C 214	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 215	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 216	QDX31EM-473Z	C.CAPACITOR		
	C 217	QETN1AM-477Z	E CAPACITOR	470MF 20% 10V	
	C 218	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 219	QDC31HJ-150Z	C CAPACITOR		
	C 220	QDC31HJ-100Z	C.CAPACITOR		
	C 221	QDC31HJ-470Z	C.CAPACITOR		
	C 222	QDC31HJ-270Z	A CAPASITOR		
	C 223	QDGB1HK-102Y	C CAPACITOR		
	C 224	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V	
	C 225	QCBB1HK-121Y	C CAPACITOR	120PF 10% 50V	
	C 241	QDX31EM-473Z	C.CAPACITOR		
	C 242	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 244	QDX31EM-473Z	C.CAPACITOR		
	C 245	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 246	QDX31EM-473Z	C.CAPACITOR		
	C 247	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 249	QDX31EM-473Z	C.CAPACITOR		
	C 250	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 251	QDX31EM-473Z	C.CAPACITOR		
	C 252	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 254	QDX31EM-473Z	C.CAPACITOR		
	C 255	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 256	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C 257	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 258	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C 259	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 260	QDX31EM-473Z	C.CAPACITOR		
	C 261	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 268	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 269	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 270	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 271	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 277	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 301	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 302	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 303	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 304	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 305	QFLC1HJ-182Z	M CAPACITOR	1800PF 5% 50V	
	C 306	QFLC1HJ-182Z	M CAPACITOR	1800PF 5% 50V	
	C 307	QFLC1HJ-682Z	M CAPACITOR	6800PF 5% 50V	
	C 308	QFLC1HJ-682Z	M CAPACITOR	6800PF 5% 50V	
	C 309	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 310	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 311	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 312	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 313	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 314	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 315	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 316	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 317	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 318	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C 319	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C 320	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C 321	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 322	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 323	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 324	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 325	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 326	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 327	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 328	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 329	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 330	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 331	QCS11HJ-471	C CAPACITOR	470PF 5% 50V	
	C 332	QCS31HJ-391Z	C CAPACITOR	390PF 5% 50V	
	C 333	QCS31HJ-391Z	C CAPACITOR	390PF 5% 50V	
	C 334	QCS31HJ-391Z	C CAPACITOR	390PF 5% 50V	
	C 337	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 338	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 339	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 340	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 341	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 342	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 343	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 344	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 345	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 346	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 347	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 348	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 349	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 350	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 351	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C 352	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C 353	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 354	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 358	QCBB1HK-561Y	C CAPACITOR	560PF 10% 50V	
	C 361	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C 362	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C 363	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 364	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 368	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 369	QDVB1EZ-223Y	C CAPACITOR		
	C 370	QCBB1HK-561Y	C CAPACITOR	560PF 10% 50V	
	C 371	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 372	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 373	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 374	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 377	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 378	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 379	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 380	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 381	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 382	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 383	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	C 384	QCS31HJ-331Z	C CAPACITOR	330PF 5% 50V	
	CN200	QGB2510K1-05	CONNECTOR		
	CN202	QGA2001F1-10	10P PLUG ASSY		
	CN204	QGB1214K1-14S	CONNECTOR		
	CN205	QGB1214J1-14S	CONNECTOR		
	CN240	QGB2510K1-04	CONNECTOR		
	CN242	QGB1214K1-14S	CONNECTOR		
	CN243	QGB1214J1-14S	CONNECTOR		
	CN254	QGB2510K1-05	CONNECTOR		
	CN311	QGB2510K1-17	CONNECTOR		

■ **Electrical parts list(Input board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	CN312	QGB2510K1-09	CONNECTOR		
	CN313	QGB2510K1-12	CONNECTOR		
	C1250	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1251	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1252	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	D 200	1SS133-T2	SI DIODE		
	D 201	1SS133-T2	SI DIODE		
	D1252	MTZJ6.2C-T2	Z DIODE		
	IC201	BA7625	IC		
	IC202	NJM2285D	IC		
	IC203	MB90088PF-131	IC		
	IC241	BA7626	IC		
	IC242	BA7625	IC		
	IC301	NJM4580DD	IC		
	IC302	NJM4580L	IC		
	IC303	NJM4580L	IC		
	IC304	TC9164AN	IC		
	IC305	NJM4580L	IC		
	IC311	TC9163AN	IC		
	IC391	BA15218N	IC		
	J 201	QNN0078-001	PIN JACK		
	J 202	QNN0067-001	PIN JACK		
	J 203	QNN0017-002	PIN JACK		
	J 241	QND0002-001	S-CONNECTOR		
	J 242	QND0028-001	DIN CONNECTOR		
	J 243	QND0024-001	S JACK		
	J 301	QNN0056-001	PIN JACK		
	J 302	QNN0056-001	PIN JACK		
	J 303	QNN0185-001	PIN JACK		
	J 311	QNN0056-001	PIN JACK		
	J 312	QNN0056-001	PIN JACK		
	J 314	QNN0107-001	PIN JACK		
	J1250	QNS0077-001	3.5 JACK		
	J1251	QNS0083-001	3.5 JACK		
	L 200	QQL231K-220Y	INDUCTOR		
	O 200	KTA1267/YG/-T	TRANSISTOR		
	Q 204	KTA1267/YG/-T	TRANSISTOR		
	O 205	KTA1267/YG/-T	TRANSISTOR		
	O 206	KTA1267/YG/-T	TRANSISTOR		
	O 240	KTA1267/YG/-T	TRANSISTOR		
	O 241	KTA1267/YG/-T	TRANSISTOR		
	O 301	2SC2878/AB/-T	TRANSISTOR		
	O 302	2SC2878/AB/-T	TRANSISTOR		
	R 200	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 201	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 202	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 203	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 206	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 207	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 208	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 209	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 210	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 213	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 214	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 219	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 220	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R 221	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 222	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 223	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 224	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
⚠	R 225	QRJ146J-3R3X	UNF C.RESISTOR	3.3 5% 1/4W	
	R 240	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 241	QRE141J-750Y	C RESISTOR	75 5% 1/4W	

⚠	Item	Parts number	Parts name	Remarks	Area
	R 242	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 243	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 244	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 245	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 246	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 247	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 248	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 249	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R 256	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 257	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 258	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 259	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 264	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 265	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 266	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 267	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 268	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 269	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
⚠	R 271	QRJ146J-6R8X	UNF C.RESISTOR	6.8 5% 1/4W	
	R 301	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 302	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 303	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 304	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 305	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R 306	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R 307	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	
	R 308	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	
	R 309	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 310	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 311	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 312	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R 313	QRJ146J-331X	UNF C.RESISTOR	330 5% 1/4W	
⚠	R 314	QRJ146J-331X	UNF C.RESISTOR	330 5% 1/4W	
⚠	R 315	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R 316	QRZ9005-680X	F.RESISTOR	68 1/4W	
	R 325	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 326	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 327	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 328	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 329	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 330	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 331	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 332	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 333	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 334	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 335	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 336	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 337	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 338	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 339	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 340	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 341	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 342	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 343	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 344	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 345	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 346	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 347	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 348	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 349	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 350	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 351	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 352	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	

■ **Electrical parts list (Input board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	R 353	QRZ9005-680X	F.RESISTOR	68 1/4W	
⚠	R 354	QRZ9005-680X	F.RESISTOR	68 1/4W	
	R 355	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 356	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 357	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 358	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 359	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 360	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 361	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 362	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 381	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 382	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 383	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 384	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 385	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 386	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 387	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 388	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1250	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R1251	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1252	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1253	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R1254	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	SP203	VYH7653-005	IC HOLDER		
	X 200	QAX0261-001Z	CRYSTAL		

■ **Electrical parts list (AC supply board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	C 1	QCZ9019-472	C.CAPACITOR	4700PF	
	C 51	QFN32AK-472Z	M.CAPACITOR	4700PF 10% 100V	
	C 52	QETM1EM-108	E CAPACITOR	1000MF 20% 25V	
	C 54	QETN1CM-477Z	E CAPACITOR	470MF 20% 16V	
	C 55	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C 56	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 61	QFN32AJ-104Z	M.CAPACITOR	.10MF 5% 100V	
	C 62	QFN32AJ-104Z	M.CAPACITOR	.10MF 5% 100V	
	C 63	QFN32AJ-104Z	M.CAPACITOR	.10MF 5% 100V	
	C 65	QETM1VM-338	E CAPACITOR	3300MF 20% 35V	
	C 66	QETM1VM-108	E.CAPACITOR	1000MF 20% 35V	
	C 67	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 68	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 69	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 70	QETN1HM-227Z	E CAPACITOR	220MF 20% 50V	
	C 71	QETN1JM-107Z	E CAPACITOR	100MF 20% 63V	
	C 72	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 73	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 74	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 93	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 94	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 705	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 706	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 711	QFLC1HJ-152Z	M CAPACITOR	1500PF 5% 50V	
	C 712	QFLC1HJ-152Z	M CAPACITOR	1500PF 5% 50V	
	C 713	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C 714	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C 715	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C 716	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C 717	QCS32HJ-220Z	C CAPACITOR	22PF 5% 500V	
	C 718	QCS32HJ-220Z	C CAPACITOR	22PF 5% 500V	
	C 813	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 814	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 815	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 981	QFLC1HJ-392Z	M CAPACITOR	3900PF 5% 50V	
	C 983	QCS11HJ-821	C CAPACITOR	820PF 5% 50V	
	C 984	QCS11HJ-821	C CAPACITOR	820PF 5% 50V	
	C 985	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 986	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C 987	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 988	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 989	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
	C 990	QCS11HJ-561	C CAPACITOR	560PF 5% 50V	
	C 991	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 992	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 993	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	CN 51	QGB2510J1-08	CONNECTOR		
	CN 52	QGB2510J1-08	CONNECTOR		
	CN 53	QGB2510J1-05	CONNECTOR		
	CN 55	QGD2501C1-03Z	SOCKET		
	CN 56	QGD2501C1-04Z	SOCKET		
	CN402	QGF1205C1-21	CONNECTOR		
	CN701	QJP002-021401	SHI CR C-B WIRE		
	CN702	QJP001-031401	SHI CR C-B WIRE		
	CN703	WJK0034-001A	SKT WIRE ASSY	(WITH CN803)	
	CN705	QGB2510K1-12	CONNECTOR		
	CN811	QGA3901F2-03	CONNECTOR		
	CN952	QJK015-062801	SIN CR C-B WIRE		
	CN953	QGA3901C1-06	6P PLUG ASSY		
	C1701	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1702	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C1703	QCS11HJ-221	C CAPACITOR	220PF 5% 50V	
	C1704	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C1705	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C1711	QCS32HJ-330Z	C CAPACITOR	33PF 5% 500V	
	C1712	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C1713	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C1715	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C1741	QETN1JM-476Z	E CAPACITOR	47MF 20% 63V	
	C1742	QETN1JM-476Z	E CAPACITOR	47MF 20% 63V	
	C1743	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1751	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C1752	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C1761	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1762	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1791	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C1801	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1802	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1803	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1804	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1805	QCS11HJ-221	C CAPACITOR	220PF 5% 50V	
	C1806	QCS11HJ-221	C CAPACITOR	220PF 5% 50V	
	C1807	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1808	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1809	QCS31HJ-5R0Z	C CAPACITOR	5.0PF 5% 50V	
	C1810	QCS31HJ-5R0Z	C CAPACITOR	5.0PF 5% 50V	
	C1811	QCS32HJ-330Z	C CAPACITOR	33PF 5% 500V	
	C1812	QCS32HJ-330Z	C CAPACITOR	33PF 5% 500V	
	C1813	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C1814	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C1815	QEKC1HM-225Z	E.CAPACITOR	2.2MF 20% 50V	
	C1816	QEKC1HM-225Z	E.CAPACITOR	2.2MF 20% 50V	
	C1817	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C1818	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C1841	QETN1JM-476Z	E CAPACITOR	47MF 20% 63V	
	C1842	QETN1JM-476Z	E CAPACITOR	47MF 20% 63V	
	C1843	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1851	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C1852	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C1853	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C1854	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C1861	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1862	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1863	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1864	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1891	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C1892	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
⚠	D 51	1SR35-400A-T5	DIODE		
⚠	D 52	1SR35-400A-T5	DIODE		
⚠	D 53	1SR35-400A-T5	DIODE		
⚠	D 54	1SR35-400A-T5	DIODE		
	D 56	MTZJ6.2A-T2	Z.DIODE IDM		
	D 57	1SS133-T2	SI DIODE		
⚠	D 61	10E2-FD	DIODE		
⚠	D 62	1SR35-400A-T5	DIODE		
⚠	D 63	10E2-FD	DIODE		
⚠	D 64	1SR35-400A-T5	DIODE		
	D 65	1SS133-T2	SI DIODE		
⚠	D 71	1SR35-400A-T5	DIODE		
⚠	D 72	1SR35-400A-T5	DIODE		
⚠	D 73	1SR35-400A-T5	DIODE		
	D 74	MTZJ33C-T2	Z DIODE		
	D 75	MTZJ6.2C-T2	Z DIODE		
	D 701	1SS133-T2	SI DIODE		
	D 702	1SS133-T2	SI DIODE		
	D 703	1SS133-T2	SI DIODE		

■ **Electrical parts list (AC supply board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	D 704	1SS133-T2	SI DIODE		
	D 805	1SS133-T2	SI DIODE		
	D 806	1SS133-T2	SI DIODE		
	D 807	1SS133-T2	SI DIODE		
	D 808	1SS133-T2	SI DIODE		
	D 809	MTZJ5.1C-T2	ZENER DIODE		
	D 981	1SS133-T2	SI DIODE		
	D 982	1SS133-T2	SI DIODE		
	D1701	1SS133-T2	SI DIODE		
	D1702	MTZJ18C-T2	Z.DIODE		
	D1771	1SS133-T2	SI DIODE		
	D1772	1SS133-T2	SI DIODE		
	D1791	1SS133-T2	SI DIODE		
	D1801	1SS133-T2	SI DIODE		
	D1802	1SS133-T2	SI DIODE		
	D1805	MTZJ18C-T2	Z.DIODE		
	D1871	1SS133-T2	SI DIODE		
	D1872	1SS133-T2	SI DIODE		
	D1873	1SS133-T2	SI DIODE		
	D1874	1SS133-T2	SI DIODE		
	D1891	1SS133-T2	SI DIODE		
	D1892	1SS133-T2	SI DIODE		
	EP 1	E409182-001SM	GRAND TERMINAL		
	EP 2	QNZ0136-001Z	EARTH PLATE		
	EP 51	QNZ0136-001Z	EARTH PLATE		
	FC 1	QNG0020-001Z	FUSE CLIP	F001	
	FC 2	QNG0020-001Z	FUSE CLIP	F001	
	FC 3	QNG0020-001Z	FUSE CLIP	F002	
	FC 4	QNG0020-001Z	FUSE CLIP	F002	
	FC 61	QNG0020-001Z	FUSE CLIP	F061	
	FC 62	QNG0020-001Z	FUSE CLIP	F061	
	FC 63	QNG0020-001Z	FUSE CLIP	F062	
	FC 64	QNG0020-001Z	FUSE CLIP	F062	
	FW 51	QUM137-10DGZ4	PARA RIBON WIRE		
	FW901	QUM133-08DGZ4	PARA RIBON WIRE		
	FW962	QUM135-15DGZ4	PARA RIBON WIRE		
	J 91	QNS0023-001	JACK		
	L1761	QQLZ005-R45	INDUCTOR		
	L1762	QQLZ005-R45	INDUCTOR		
	L1861	QQLZ005-R45	INDUCTOR		
	L1862	QQLZ005-R45	INDUCTOR		
	L1863	QQLZ005-R45	INDUCTOR		
	L1864	QQLZ005-R45	INDUCTOR		
⚠	Q 52	2SC2235/OY/-T	TRANSISTOR		
	O 53	KRC105M-T	D.TRANSISTOR		
	Q 61	KRC107M-T	D.TRANSISTOR		
	O 71	2SB1357/EF/-T	TRANSISTOR		
	O 74	2SC2240/GL/-T	TRANSISTOR		
	O 701	2SC2240-BL/AB/T	TRANSISTOR		
	Q 702	2SC2240-BL/AB/T	TRANSISTOR		
	O 703	2SC2240-BL/AB/T	TRANSISTOR		
	O 704	2SC2240-BL/AB/T	TRANSISTOR		
	O 705	2SA1038S/SE/-T	TRANSISTOR		
	O 706	2SA1038S/SE/-T	TRANSISTOR		
	Q 707	2SA933AS/RS/-T	TRANSISTOR		
	O 708	2SA933AS/RS/-T	TRANSISTOR		
	O 709	2SA1038S/SE/-T	TRANSISTOR		
	O 710	2SA1038S/SE/-T	TRANSISTOR		
	O 711	2SC2389S/SE/-T	TRANSISTOR		
	O 712	2SC2389S/SE/-T	TRANSISTOR		
	Q 805	KRC109M-T	D.TRANSISTOR		
	O 806	KRC109M-T	D.TRANSISTOR		
	O 807	KRC109M-T	D.TRANSISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	O 808	KRC109M-T	D.TRANSISTOR		
	Q 809	KRC109M-T	D.TRANSISTOR		
	O 810	KRC109M-T	D.TRANSISTOR		
	O 811	KRC109M-T	D.TRANSISTOR		
	O1701	2SC2240-BL/AB/T	TRANSISTOR		
	O1702	2SC2240-BL/AB/T	TRANSISTOR		
	Q1703	2SA1038S/S/-T	TRANSISTOR		
	O1731	2SD637/QR/	TRANSISTOR		
	O1771	2SC2389S/SE/-T	TRANSISTOR		
	O1772	2SA1038S/SE/-T	TRANSISTOR		
	O1791	2SC2389S/SE/-T	TRANSISTOR		
	O1801	2SC2240-BL/AB/T	TRANSISTOR		
	Q1802	2SC2240-BL/AB/T	TRANSISTOR		
	O1803	2SC2240-BL/AB/T	TRANSISTOR		
	O1804	2SC2240-BL/AB/T	TRANSISTOR		
	O1805	2SA1038S/S/-T	TRANSISTOR		
	O1806	2SA1038S/S/-T	TRANSISTOR		
	O1831	2SD637/QR/	TRANSISTOR		
	Q1832	2SD637/QR/	TRANSISTOR		
	O1871	2SC2389S/SE/-T	TRANSISTOR		
	O1872	2SC2389S/SE/-T	TRANSISTOR		
	O1873	2SA1038S/SE/-T	TRANSISTOR		
	Q1874	2SA1038S/SE/-T	TRANSISTOR		
	O1891	2SC2389S/SE/-T	TRANSISTOR		
	O1892	2SC2389S/SE/-T	TRANSISTOR		
⚠	R 53	QRZ9005-180X	F.RESISTOR	18 1/4W	
	R 54	QRE141J-821Y	C RESISTOR	820 5% 1/4W	
⚠	R 55	QRT022J-1R0	MF RESISTOR	1.0 5% 1/2W	
⚠	R 61	QRT012J-R22	UNF.MF.RESISTOR	5% 1/1W	
⚠	R 62	QRT012J-R22	UNF.MF.RESISTOR	5% 1/1W	
⚠	R 66	QRJ146J-2R2X	UNF C.RESISTOR	2.2 5% 1/4W	
⚠	R 67	QRJ146J-120X	UNF C.RESISTOR	12 5% 1/4W	
	R 68	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 69	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R 70	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
⚠	R 72	QRJ146J-332X	UNF C.RESISTOR	3.3K 5% 1/4W	
	R 73	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 74	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R 91	QRL022J-471	UNF OMF.RES.	470 5% 1/2W	
⚠	R 92	QRL022J-471	UNF OMF.RES.	470 5% 1/2W	
	R 705	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R 706	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R 707	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R 708	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R 709	QRE141J-912Y	C RESISTOR	9.1K 5% 1/4W	
	R 710	QRE141J-912Y	C RESISTOR	9.1K 5% 1/4W	
⚠	R 717	QRJ146J-562X	UNF C.RESISTOR	5.6K 5% 1/4W	
⚠	R 718	QRJ146J-562X	UNF C.RESISTOR	5.6K 5% 1/4W	
⚠	R 719	QRK126J-103X	UNF.C.RESISTOR	10K 5% 1/2W	
⚠	R 720	QRK126J-103X	UNF.C.RESISTOR	10K 5% 1/2W	
⚠	R 721	QRJ146J-151X	UNF C.RESISTOR	150 5% 1/4W	
⚠	R 722	QRJ146J-151X	UNF C.RESISTOR	150 5% 1/4W	
	R 723	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 724	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 725	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 726	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 727	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R 728	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R 729	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 730	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 731	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 732	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 733	QRE141J-101Y	C RESISTOR	100 5% 1/4W	

■ **Electrical parts list (AC supply board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	R 734	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 941	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 942	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 943	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 944	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 945	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 946	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
⚠	R 981	QRJ146J-101X	UNF C.RESISTOR	100 5% 1/4W	
⚠	R 982	QRJ146J-101X	UNF C.RESISTOR	100 5% 1/4W	
⚠	R 985	QRJ146J-2R7X	UNF C.RESISTOR	2.7 5% 1/4W	
⚠	R 987	QRJ146J-2R7X	UNF C.RESISTOR	2.7 5% 1/4W	
⚠	R 988	QRJ146J-2R7X	UNF C.RESISTOR	2.7 5% 1/4W	
	R 991	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 992	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 993	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
⚠	R 999	QRJ146J-392X	UNF C. RESISTOR	3.9K 5% 1/4W	
⚠	RY 1	QSK0098-001	RELAY		
	RY981	QSK0109-001	RELAY		
	RY982	QSK0109-001	RELAY		
	R1701	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1702	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1703	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R1705	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1711	QRE141J-911Y	C RESISTOR	910 5% 1/4W	
	R1712	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R1721	QRJ146J-221X	UNF C.RESISTOR	220 5% 1/4W	
	R1722	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1723	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1724	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1725	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1731	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R1732	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
⚠	R1742	QRJ146J-331X	UNF C.RESISTOR	330 5% 1/4W	
⚠	R1743	QRL022J-562	UNF.OMF.RES.	5.6K 5% 1/2W	
⚠	R1751	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
⚠	R1752	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
⚠	R1753	QRZ0196-R22	EMIT.RESISTOR	7W	
⚠	R1761	QRJ125J-330	UNF.C.RESISTOR	33 5% 1/2W	
⚠	R1762	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
	R1771	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1772	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1773	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1774	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1791	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1792	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1793	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1794	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1801	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1802	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1803	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1804	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1805	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R1806	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R1809	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1810	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1811	QRE141J-911Y	C RESISTOR	910 5% 1/4W	
	R1812	QRE141J-911Y	C RESISTOR	910 5% 1/4W	
	R1813	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1814	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R1821	QRJ146J-221X	UNF C.RESISTOR	220 5% 1/4W	
⚠	R1822	QRJ146J-221X	UNF C.RESISTOR	220 5% 1/4W	
	R1823	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1824	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	

⚠	Item	Parts number	Parts name	Remarks	Area
	R1825	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1826	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1827	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1828	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1829	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1830	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R1831	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R1832	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R1833	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1834	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
⚠	R1842	QRJ146J-181X	UNF C.RESISTOR	180 5% 1/4W	
⚠	R1843	QRL022J-562	UNF.OMF.RES.	5.6K 5% 1/2W	
⚠	R1851	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
⚠	R1852	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
⚠	R1853	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
⚠	R1854	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
⚠	R1855	QRZ0196-R22	EMIT.RESISTOR	1/1W	
⚠	R1856	QRZ0196-R22	EMIT.RESISTOR	1/1W	
⚠	R1861	QRJ125J-330	UNF.C.RESISTOR	33 5% 1/2W	
⚠	R1862	QRJ125J-330	UNF.C.RESISTOR	33 5% 1/2W	
⚠	R1863	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
⚠	R1864	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
	R1871	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1872	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1873	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1874	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1875	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1876	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1877	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1878	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R1891	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1892	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1893	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1894	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1895	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1896	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1897	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1898	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	ST981	QNB0016-001	SPK TERMINAL		
⚠	T 2	QQT0281-002	POWER TRANSF		
	TA 1	QNZ0079-001Z	TAB		
	TA 2	QNZ0079-001Z	TAB		
⚠	TH 71	QAD0095-4R7Z	POSISTOR		
⚠	TH731	QAD0012-202	THERMISTOR		
⚠	TH831	QAD0012-202	THERMISTOR		
⚠	TH832	QAD0012-202	THERMISTOR		

■ **Electrical parts list(AC-3 board)** **Block No. 05**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 601	NCB31HK-102X	C CAPACITOR		
	C 602	NCB31HK-102X	C CAPACITOR		
	C 603	NEA70JM-476X	E.CAPACITOR		
	C 604	NEA70JM-476X	E.CAPACITOR		
	C 605	NCB31CK-104X	C CAPACITOR		
	C 606	NCB31CK-104X	C CAPACITOR		
	C 607	NEA71CM-476X	E CAPACITOR		
	C 608	NCF31CZ-104X	C CAPACITOR		
	C 609	NCB31CK-104X	C CAPACITOR		
	C 610	NEA70JM-476X	E.CAPACITOR		
	C 611	NEA70JM-226X	E CAPACITOR		
	C 612	NCB31CK-103X	C CAPACITOR		
	C 621	NEA71HM-105X	E.CAPACITOR		
	C 622	NCB31HK-101X	C CAPACITOR		
	C 623	NCB30JK-105X	C CAPACITOR		
	C 624	NCB31CK-104X	C CAPACITOR		
	C 625	NCB31CK-104X	C CAPACITOR		
	C 628	NCB31CK-103X	C CAPACITOR		
	C 631	NEA70GM-107X	E CAPACITOR		
	C 632	NCB31CK-103X	C CAPACITOR		
	C 633	NCB31CK-104X	C CAPACITOR		
	C 634	NCB31CK-104X	C CAPACITOR		
	C 635	NCB31CK-104X	C CAPACITOR		
	C 636	NCB31CK-104X	C CAPACITOR		
	C 637	NCB31CK-104X	C CAPACITOR		
	C 638	NEA70JM-476X	E.CAPACITOR		
	C 639	NCB31CK-103X	C CAPACITOR		
	C 641	NEA70JM-107X	E.CAPACITOR		
	C 642	NCB31CK-103X	C CAPACITOR		
	C 643	NCB31AK-474X	C CAPACITOR		
	C 644	NCB31CK-103X	C CAPACITOR		
	C 645	NCS31HJ-101X	C.CAPACITOR		
	C 646	NCB31CK-103X	C CAPACITOR		
	C 647	NCS31HJ-220X	C CAPACITOR		
	C 648	NCS31HJ-180X	C CAPACITOR		
	C 649	NCS31HJ-121X	C CAPACITOR		
	C 653	NCB31CK-104X	C CAPACITOR		
	C 654	NEA70GM-107X	E CAPACITOR		
	C 661	NCB31CK-103X	C CAPACITOR		
	C 671	NCB31CK-103X	C CAPACITOR		
	C 672	NEA70GM-107X	E CAPACITOR		
	C 673	NCB31CK-103X	C CAPACITOR		
	C 677	NCB31HK-101X	C CAPACITOR		
	C 679	NCB31HK-101X	C CAPACITOR		
	C 681	NCB31CK-103X	C CAPACITOR		
	C 682	NCB31CK-103X	C CAPACITOR		
	C 683	NCB31CK-103X	C CAPACITOR		
	C 684	NEA70JM-107X	E.CAPACITOR		
	C 685	NEA71CM-476X	E CAPACITOR		
	C 686	NEA71CM-476X	E CAPACITOR		
	C 687	NCB31CK-103X	C CAPACITOR		
	C 688	NEA70JM-107X	E.CAPACITOR		
	C 689	NCB31CK-103X	C CAPACITOR		
	C 690	NEA70JM-107X	E.CAPACITOR		
	C 691	NEA71HM-105X	E.CAPACITOR		
	C 692	NEA71HM-105X	E.CAPACITOR		
	C 693	NCB31CK-103X	C CAPACITOR		
	C 694	NCB31CK-103X	C CAPACITOR		
	C 695	NEA71HM-105X	E.CAPACITOR		
	C 696	NEA71HM-105X	E.CAPACITOR		
	C 697	NEA71HM-105X	E.CAPACITOR		
	C 698	NEA71HM-105X	E.CAPACITOR		
	CN681	QGB1214K3-18W	CONNECTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	CN687	QGB1214K3-12W	CONNECTOR		
	C2500	NEA71CM-226X	E.CAPACITOR		
	C2501	NCB31AK-474X	C CAPACITOR		
	C2503	NEA71EM-475X	E.CAPACITOR		
	C2504	NEA71EM-475X	E.CAPACITOR		
	C2505	NCS31HJ-560X	C CAPACITOR		
	C2506	NCS31HJ-560X	C CAPACITOR		
	C2507	NCS31HJ-560X	C CAPACITOR		
	C2508	NCS31HJ-560X	C CAPACITOR		
	C2509	NCF31CZ-104X	C CAPACITOR		
	C2510	NCF31CZ-104X	C CAPACITOR		
	C2511	NCB31AK-474X	C CAPACITOR		
	C2512	NCB31AK-474X	C CAPACITOR		
	C2513	NCB31CK-183X	C CAPACITOR		
	C2514	NCB31CK-183X	C CAPACITOR		
	C2515	NCB31HK-182X	C CAPACITOR		
	C2516	NCB31HK-182X	C CAPACITOR		
	C2517	NCB31HK-562X	C CAPACITOR		
	C2518	NCB31HK-562X	C CAPACITOR		
	C2519	NCF31CZ-104X	C CAPACITOR		
	C2520	NCF31CZ-104X	C CAPACITOR		
	C2521	NCB31CK-103X	C CAPACITOR		
	C2522	NCB31CK-103X	C CAPACITOR		
	C2523	NCB31HK-272X	C CAPACITOR		
	C2524	NCB31HK-272X	C CAPACITOR		
	C2525	NCB31HK-392X	C CAPACITOR		
	C2526	NCB31HK-392X	C CAPACITOR		
	C2527	NEA71HM-225X	E.CAPACITOR		
	C2528	NEA71HM-225X	E.CAPACITOR		
	C2529	NCF31CZ-104X	C CAPACITOR		
	C2530	NCF31CZ-104X	C CAPACITOR		
	C2531	NCS31HJ-560X	C CAPACITOR		
	C2532	NCS31HJ-560X	C CAPACITOR		
	C2533	NEA71EM-475X	E.CAPACITOR		
	C2534	NEA71EM-475X	E.CAPACITOR		
	C2539	NCF31CZ-104X	C CAPACITOR		
	C2540	NCF31CZ-104X	C CAPACITOR		
	C2541	NCS31HJ-560X	C CAPACITOR		
	C2542	NCS31HJ-560X	C CAPACITOR		
	C2543	NEA71EM-475X	E.CAPACITOR		
	C2544	NEA71EM-475X	E.CAPACITOR		
	C2549	NCF31CZ-104X	C CAPACITOR		
	C2550	NCF31CZ-104X	C CAPACITOR		
	C2551	NCS31HJ-560X	C CAPACITOR		
	C2552	NCS31HJ-560X	C CAPACITOR		
	C2553	NCB31HK-562X	C CAPACITOR		
	C2554	NCB31HK-562X	C CAPACITOR		
	C2555	NCF31CZ-104X	C CAPACITOR		
	C2556	NCF31CZ-104X	C CAPACITOR		
	C2559	NCF31CZ-104X	C CAPACITOR		
	C2560	NCF31CZ-104X	C CAPACITOR		
	C2561	NEA71HM-105X	E.CAPACITOR		
	C2562	NEA71HM-105X	E.CAPACITOR		
	C2563	NCS31HJ-220X	C CAPACITOR		
	C2564	NCS31HJ-220X	C CAPACITOR		
	C2569	NCF31CZ-104X	C CAPACITOR		
	C2570	NCF31CZ-104X	C CAPACITOR		
	C2571	NCB31CK-103X	C CAPACITOR		
	C2572	NCB31CK-103X	C CAPACITOR		
	C2573	NCB31HK-272X	C CAPACITOR		
	C2574	NCB31HK-272X	C CAPACITOR		
	C2575	NCB31HK-392X	C CAPACITOR		
	C2576	NCB31HK-392X	C CAPACITOR		

■ **Electrical parts list (AC-3 board)** **Block No. 05**

⚠	Item	Parts number	Parts name	Remarks	Area
	C2577	NEA71HM-225X	E.CAPACITOR		
	C2578	NEA71HM-225X	E.CAPACITOR		
	C2579	NCF31CZ-104X	C CAPACITOR		
	C2580	NCF31CZ-104X	C CAPACITOR		
	C2581	NEA71HM-105X	E.CAPACITOR		
	C2582	NEA71CM-106X	E.CAPACITOR		
	C2583	NCS31HJ-220X	C CAPACITOR		
	C2584	NCS31HJ-560X	C CAPACITOR		
	C2585	NCF31CZ-104X	C CAPACITOR		
	C2586	NCF31CZ-104X	C CAPACITOR		
	C2587	NCS31HJ-560X	C CAPACITOR		
	C2588	NEA71CM-106X	E.CAPACITOR		
	C2589	NCF31CZ-104X	C CAPACITOR		
	C2590	NCF31CZ-104X	C CAPACITOR		
	C2591	NCB31CK-103X	C CAPACITOR		
	C2592	NCB31HK-223X	C CAPACITOR		
	C2593	NCB31HK-272X	C CAPACITOR		
	C2594	NCB31CK-104X	C CAPACITOR		
	C2595	NCB31HK-392X	C CAPACITOR		
	C2597	NEA71HM-225X	E.CAPACITOR		
	C2598	NEA71EM-475X	E.CAPACITOR		
	C2599	NCF31CZ-104X	C CAPACITOR		
	C2600	NCF31CZ-104X	C CAPACITOR		
	D 602	1SS355-X	DIODE		
	D 607	1SS355-X	DIODE		
	D 608	1SS355-X	DIODE		
	EP601	E409182-001SM	GRAND TERMINAL		
	IC501	BA15218F-XE	IC		
	IC510	BA15218F-XE	IC		
	IC511	BA15218F-XE	IC		
	IC521	BA15218F-XE	IC		
	IC531	BA15218F-XE	IC		
	IC541	BA15218F-XE	IC		
	IC551	BA15218F-XE	IC		
	IC561	BA15218F-XE	IC		
	IC571	BA15218F-XE	IC		
	IC581	BA15218F-XE	IC		
	IC591	BA15218F-XE	IC		
	IC592	BA15218F-XE	IC		
	IC601	AK4527VQ	IC		
	IC602	BU4066BCF-X	IC		
	IC611	BU4066BCF-X	IC		
	IC621	TC7SU04FU-X	IC		
	IC622	TC7SU04FU-X	IC		
	IC631	TC9446F-014	IC		
	IC641	W24L011AJ-15-X	IC		
	IC671	UPD784215AGC103	1C		
	IC672	TC7SET32FU-X	IC		
⚠	IC681	PQ3DZ53-X	IC		
	IC683	PQ3DZ53-X	IC		
	J 601	EMN00TV-107A	PIN JACK		
	K 501	NQR0269-007X	FERRITE BEADS		
	K 502	NQR0269-007X	FERRITE BEADS		
	K 503	NQR0269-007X	FERRITE BEADS		
	K 504	NQR0269-007X	FERRITE BEADS		
	K 531	NQR0269-007X	FERRITE BEADS		
	K 532	NQR0269-007X	FERRITE BEADS		
	K 541	NQR0269-007X	FERRITE BEADS		
	K 542	NQR0269-007X	FERRITE BEADS		
	K 561	NQR0269-007X	FERRITE BEADS		
	K 562	NQR0269-007X	FERRITE BEADS		
	K 581	NQR0269-007X	FERRITE BEADS		
	K 582	NQR0269-007X	FERRITE BEADS		

⚠	Item	Parts number	Parts name	Remarks	Area
	K 601	NQR0269-007X	FERRITE BEADS		
	K 611	NQR0269-007X	FERRITE BEADS		
	K 612	NQR0269-007X	FERRITE BEADS		
	K 613	NQR0269-007X	FERRITE BEADS		
	K 614	NQR0269-007X	FERRITE BEADS		
	K 615	NQR0269-007X	FERRITE BEADS		
	K 616	NQR0269-007X	FERRITE BEADS		
	K 617	NQR0269-007X	FERRITE BEADS		
	K 618	NQR0269-007X	FERRITE BEADS		
	K 619	NQR0269-007X	FERRITE BEADS		
	K 620	NQR0269-007X	FERRITE BEADS		
	K 621	NQR0269-007X	FERRITE BEADS		
	K 622	NQR0269-007X	FERRITE BEADS		
	K 687	NQR0319-001X	F.BEADS C.M		
	L 661	NQL024J-470X	INDUCTOR CM		
	L 662	NQL024J-470X	INDUCTOR CM		
	L 663	NQL024J-470X	INDUCTOR CM		
	LC601	NQR0321-001X	EMI FILTER C.M		
	LC632	NQR0321-001X	EMI FILTER C.M		
	LC641	NQR0321-001X	EMI FILTER C.M		
	LC671	NQR0321-001X	EMI FILTER C.M		
	O 601	DTC114YE-X	TRANSISTOR		
	O 607	DTA144EKA-X	TRANSISTOR		
	O 670	DTC114YE-X	TRANSISTOR		
	O 671	2SD1328/ST/-X	TRANSISTOR		
	Q 672	DTC114YE-X	TRANSISTOR		
	O 673	DTA144EKA-X	TRANSISTOR		
	O 674	DTC114YE-X	TRANSISTOR		
	O 675	DTC114YE-X	TRANSISTOR		
	O2501	DTA144EKA-X	TRANSISTOR		
	O2521	2SD1328/ST/-X	TRANSISTOR		
	O2522	2SD1328/ST/-X	TRANSISTOR		
	O2561	2SD1328/ST/-X	TRANSISTOR		
	O2562	2SD1328/ST/-X	TRANSISTOR		
	Q2581	2SD1328/ST/-X	TRANSISTOR		
	O2582	2SD1328/ST/-X	TRANSISTOR		
	R 601	NRSA63J-473X	MG RESISTOR		
	R 602	NRSA63J-473X	MG RESISTOR		
	R 603	NRSA63J-473X	MG RESISTOR		
	R 604	NRSA63J-473X	MG RESISTOR		
	R 605	NRSA63J-473X	MG RESISTOR		
	R 606	NRSA63J-221X	MG RESISTOR		
	R 607	NRSA63J-221X	MG RESISTOR		
	R 608	NRSA63J-221X	MG RESISTOR		
	R 609	NRSA63J-221X	MG RESISTOR		
	R 610	NRSA63J-221X	MG RESISTOR		
	R 611	NRSA63J-332X	MG RESISTOR		
	R 612	NRSA63J-103X	MG RESISTOR		
	R 613	NRSA63J-822X	MG RESISTOR		
	R 615	NRSA63J-432X	MG RESISTOR		
	R 617	NRSA63J-103X	MG RESISTOR		
	R 618	NRSA63J-103X	MG RESISTOR		
	R 619	NRSA63J-221X	MG RESISTOR		
	R 620	NRSA63J-221X	MG RESISTOR		
	R 621	NRSA63J-221X	MG RESISTOR		
	R 622	NRSA63J-750X	MG RESISTOR		
	R 623	NRSA63J-101X	MG RESISTOR		
	R 625	NRSA63J-101X	MG RESISTOR		
	R 627	NRSA63J-472X	MG RESISTOR		
	R 628	NRSA63J-183X	MG RESISTOR		
	R 633	NRSA63J-221X	MG RESISTOR		
	R 639	NRSA63J-472X	MG RESISTOR		
	R 641	NRSA63J-102X	MG RESISTOR		

■ **Electrical parts list (AS-3 board)** **Block No. 05**

⚠	Item	Parts number	Parts name	Remarks	Area
	R 642	NRSA63J-103X	MG RESISTOR		
	R 643	NRSA63J-101X	MG RESISTOR		
	R 644	NRSA63J-563X	MG RESISTOR		
	R 645	NRSA63J-102X	MG RESISTOR		
	R 646	NRSA63J-103X	MG RESISTOR		
	R 647	NRSA63J-225X	MG RESISTOR		
	R 648	NRSA63J-472X	MG RESISTOR		
	R 649	NRSA63J-1R0X	MG RESISTOR		
	R 650	NRSA63J-1R0X	MG RESISTOR		
	R 651	NRSA63J-0R0X	MG RESISTOR		
	R 652	NRSA63J-0R0X	MG RESISTOR		
	R 657	NRSA63J-103X	MG RESISTOR		
	R 661	NRSA63J-221X	MG RESISTOR		
	R 662	NRSA63J-221X	MG RESISTOR		
	R 663	NRSA63J-221X	MG RESISTOR		
	R 664	NRSA63J-221X	MG RESISTOR		
	R 669	NRSA63J-103X	MG RESISTOR		
	R 670	NRSA63J-103X	MG RESISTOR		
	R 671	NRSA63J-103X	MG RESISTOR		
	R 672	NRSA63J-105X	MG RESISTOR		
	R 673	NRSA63J-432X	MG RESISTOR		
	R 674	NRSA63J-432X	MG RESISTOR		
	R 675	NRSA63J-432X	MG RESISTOR		
	R 676	NRSA63J-432X	MG RESISTOR		
	R 677	NRSA63J-822X	MG RESISTOR		
	R 678	NRSA63J-822X	MG RESISTOR		
	R 679	NRSA63J-822X	MG RESISTOR		
	R 680	NRSA63J-822X	MG RESISTOR		
	R 681	NRSA63J-103X	MG RESISTOR		
	R 682	NRSA63J-103X	MG RESISTOR		
	R 683	NRSA63J-0R0X	MG RESISTOR		
	R 685	NRSA63J-103X	MG RESISTOR		
	R 686	NRSA63J-151X	MG RESISTOR		
	R 691	NRSA63J-104X	MG RESISTOR		
	R 692	NRSA63J-104X	MG RESISTOR		
	R 695	NRSA63J-104X	MG RESISTOR		
	R 696	NRSA63J-104X	MG RESISTOR		
	R 697	NRSA63J-104X	MG RESISTOR		
	R 698	NRSA63J-104X	MG RESISTOR		
	R2500	NRSA63J-102X	MG RESISTOR		
	R2501	NRSA63J-104X	MG RESISTOR		
	R2502	NRSA63J-104X	MG RESISTOR		
	R2503	NRSA63J-183X	MG RESISTOR		
	R2504	NRSA63J-183X	MG RESISTOR		
	R2505	NRSA63J-103X	MG RESISTOR		
	R2506	NRSA63J-103X	MG RESISTOR		
	R2507	NRSA63J-103X	MG RESISTOR		
	R2508	NRSA63J-103X	MG RESISTOR		
	R2509	NRSA63J-103X	MG RESISTOR		
	R2510	NRSA63J-103X	MG RESISTOR		
	R2511	NRSA63J-102X	MG RESISTOR		
	R2512	NRSA63J-102X	MG RESISTOR		
	R2513	NRSA63J-102X	MG RESISTOR		
	R2514	NRSA63J-102X	MG RESISTOR		
	R2515	NRSA63J-102X	MG RESISTOR		
	R2516	NRSA63J-102X	MG RESISTOR		
	R2517	NRSA63J-102X	MG RESISTOR		
	R2518	NRSA63J-102X	MG RESISTOR		
	R2519	NRSA63J-102X	MG RESISTOR		
	R2520	NRSA63J-102X	MG RESISTOR		
	R2521	NRSA63J-102X	MG RESISTOR		
	R2522	NRSA63J-102X	MG RESISTOR		
	R2523	NRSA63J-102X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R2524	NRSA63J-102X	MG RESISTOR		
	R2525	NRSA63J-102X	MG RESISTOR		
	R2526	NRSA63J-102X	MG RESISTOR		
	R2527	NRSA63J-104X	MG RESISTOR		
	R2528	NRSA63J-104X	MG RESISTOR		
	R2529	NRSA63J-103X	MG RESISTOR		
	R2530	NRSA63J-103X	MG RESISTOR		
	R2531	NRSA63J-113X	MG RESISTOR		
	R2532	NRSA63J-113X	MG RESISTOR		
	R2533	NRSA63J-103X	MG RESISTOR		
	R2534	NRSA63J-103X	MG RESISTOR		
	R2535	NRSA63J-103X	MG RESISTOR		
	R2536	NRSA63J-103X	MG RESISTOR		
	R2537	NRSA63J-104X	MG RESISTOR		
	R2538	NRSA63J-104X	MG RESISTOR		
	R2541	NRSA63J-113X	MG RESISTOR		
	R2542	NRSA63J-113X	MG RESISTOR		
	R2543	NRSA63J-103X	MG RESISTOR		
	R2544	NRSA63J-103X	MG RESISTOR		
	R2545	NRSA63J-562X	MG RESISTOR		
	R2546	NRSA63J-562X	MG RESISTOR		
	R2547	NRSA63J-104X	MG RESISTOR		
	R2548	NRSA63J-104X	MG RESISTOR		
	R2550	NRSA63J-272X	MG RESISTOR		
	R2551	NRSA63J-103X	MG RESISTOR		
	R2552	NRSA63J-103X	MG RESISTOR		
	R2553	NRSA63J-153X	MG RESISTOR		
	R2554	NRSA63J-153X	MG RESISTOR		
	R2555	NRSA63J-822X	MG RESISTOR		
	R2556	NRSA63J-822X	MG RESISTOR		
	R2557	NRSA63J-103X	MG RESISTOR		
	R2558	NRSA63J-223X	MG RESISTOR		
	R2560	NRSA63J-105X	MG RESISTOR		
	R2561	NRSA63J-104X	MG RESISTOR		
	R2562	NRSA63J-104X	MG RESISTOR		
	R2563	NRSA63J-103X	MG RESISTOR		
	R2564	NRSA63J-103X	MG RESISTOR		
	R2565	NRSA63J-302X	MG RESISTOR		
	R2566	NRSA63J-302X	MG RESISTOR		
	R2567	NRSA63J-103X	MG RESISTOR		
	R2568	NRSA63J-103X	MG RESISTOR		
	R2571	NRSA63J-102X	MG RESISTOR		
	R2572	NRSA63J-102X	MG RESISTOR		
	R2573	NRSA63J-102X	MG RESISTOR		
	R2574	NRSA63J-102X	MG RESISTOR		
	R2575	NRSA63J-102X	MG RESISTOR		
	R2576	NRSA63J-102X	MG RESISTOR		
	R2577	NRSA63J-104X	MG RESISTOR		
	R2578	NRSA63J-104X	MG RESISTOR		
	R2581	NRSA63J-104X	MG RESISTOR		
	R2582	NRSA63J-104X	MG RESISTOR		
	R2583	NRSA63J-103X	MG RESISTOR		
	R2584	NRSA63J-223X	MG RESISTOR		
	R2585	NRSA63J-302X	MG RESISTOR		
	R2586	NRSA63J-332X	MG RESISTOR		
	R2587	NRSA63J-103X	MG RESISTOR		
	R2588	NRSA63J-103X	MG RESISTOR		
	R2589	NRSA63J-104X	MG RESISTOR		
	R2590	NRSA63J-333X	MG RESISTOR		
	R2591	NRSA63J-102X	MG RESISTOR		
	R2592	NRSA63J-333X	MG RESISTOR		
	R2593	NRSA63J-102X	MG RESISTOR		
	R2594	NRSA63J-333X	MG RESISTOR		

■ **Electrical parts list (AC-3 board)** **Block No. 05**

⚠	Item	Parts number	Parts name	Remarks	Area
	R2595	NRSA63J-102X	MG RESISTOR		
	R2596	NRSA63J-102X	MG RESISTOR		
	R2597	NRSA63J-104X	MG RESISTOR		
	R2598	NRSA63J-104X	MG RESISTOR		
	UN661	GP1FA550RZ	OPT RECEIVER		
	UN662	GP1FA550RZ	OPT RECEIVER		
	UN663	GP1FA550TZ	OPT TRANSMITTER		
	X 631	NAX0385-001X	CRYSTAL		
	X 671	NAX0275-001X	C OSCIALLATOR		

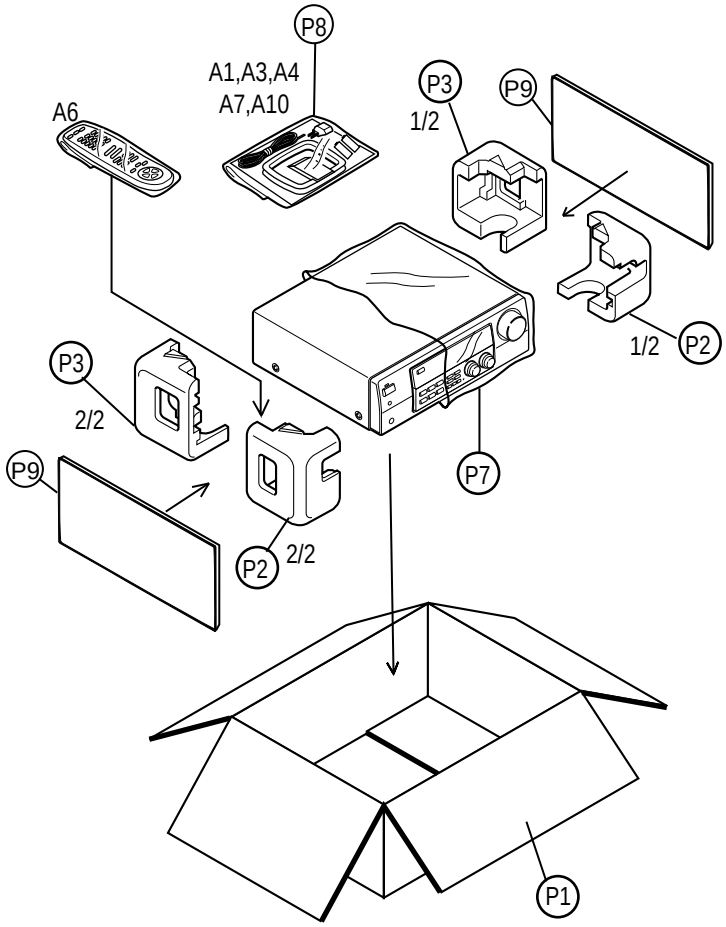
■ **Electrical parts list (Tuner board)** **Block No. 06**

⚠	Item	Parts number	Parts name	Remarks	Area
	AT101	QNB0014-001	ANT TERMINAL		
	C 101	NCB21HK-103X	C CAPACITOR		
	C 103	NCB21HK-223X	C CAPACITOR		
	C 105	NCB21HK-223X	C CAPACITOR		
	C 107	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 111	NCB21HK-473X	C CAPACITOR		
	C 112	NDC21HJ-120X	C CAPACITOR		
	C 113	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	
	C 121	NDC21HJ-120X	C CAPACITOR		
	C 122	NDC21HJ-120X	C CAPACITOR		
	C 123	NCB21HK-473X	C CAPACITOR		
	C 126	NCS21HJ-101X	C CAPACITOR		
	C 128	QENC1HM-474Z	NP E.CAPACITOR	.47MF 20% 50V	
	C 129	NCB21HK-102X	C CAPACITOR		
	C 130	QEKC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 133	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 134	NCB21HK-222X	C CAPACITOR		
	C 135	NCB21HK-223X	C CAPACITOR		
	C 136	QEKC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
	C 137	NCS21HJ-680X	C CAPACITOR		
	C 139	NCB21HK-393X	C CAPACITOR		
	C 140	NCB21HK-393X	C CAPACITOR		
	C 141	NCB21HK-473X	C CAPACITOR		
	C 143	NCB21HK-223X	C CAPACITOR		
	C 144	NCB21HK-473X	C CAPACITOR		
	C 146	QEKC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
	C 147	QEKC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
	C 148	QEKC1HM-224Z	E.CAPACITOR	.22MF 20% 50V	
	C 149	QEKC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
	C 150	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 156	QDGB1HK-102Y	C CAPACITOR		
	C 157	NCB21HK-473X	C CAPACITOR		
	C 158	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 161	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 162	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 163	NCB21HK-223X	C CAPACITOR		
	C 164	NCB21HK-473X	C CAPACITOR		
	C 168	QEKC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
	C 184	QEKC1CM-107Z	E.CAPACITOR	100MF 20% 16V	
	C 185	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 186	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 191	NCS21HJ-820X	C CAPACITOR		
	C 192	NCS21HJ-470X	C CAPACITOR		
	C 193	NCB21HK-561X	C CAPACITOR		
	C 194	NCB21HK-104X	C CAPACITOR		
	C 195	NCB21HK-331X	C.CAPACITOR		
	C 196	QEKC1HM-225Z	E.CAPACITOR	2.2MF 20% 50V	
	C 197	NCB21HK-473X	C CAPACITOR		
	C 199	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CF101	QAX0285-001Z	C.FILTER		
	CF102	QAX0285-001Z	C.FILTER		
	CF103	QAX0519-001Z	C FILTER		
	CN111	QGB2501K2-12	CONECTOR		
	CN112	QGB2501K1-04	CONNECTOR		
	D 121	1SS133-T2	SI DIODE		
	D 123	1SS133-T2	SI DIODE		
	D 129	1SS133-T2	SI DIODE		
	D 131	1SS133-T2	SI DIODE		
	IC102	LA1838	IC		
	IC121	LC72136N	IC		
	IC191	SAA6588	IC(RDS)		
	L 112	QQL231K-2R7Y	INDUCTOR		
	Q 102	2SC535/BC/-T	TRANSISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	Q 103	2SC461/BC/-T	TRANSISTOR		
	Q 111	KTC3199/GL/-T	TRANSISTOR		
	O 112	KTC3199/GL/-T	TRANSISTOR		
	O 113	DTA114YKA-X	TRANSISTOR		
	O 121	KRA103M-T	TRANSISTOR		
	R 103	NRSA02J-101X	MG RESISTOR		
	R 104	NRSA02J-272X	MG RESISTOR		
	R 105	NRSA02J-391X	MG RESISTOR		
	R 106	NRSA02J-102X	MG RESISTOR		
	R 107	NRSA02J-561X	MG RESISTOR		
	R 108	NRSA02J-332X	MG RESISTOR		
	R 109	NRSA02J-221X	MG RESISTOR		
	R 111	NRSA02J-472X	MG RESISTOR		
	R 112	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 114	NRSA02J-122X	MG RESISTOR		
	R 115	NRSA02J-104X	MG RESISTOR		
	R 119	NRSA02J-103X	MG RESISTOR		
	R 122	NRSA02J-472X	MG RESISTOR		
	R 124	NRSA02J-222X	MG RESISTOR		
	R 126	NRSA02J-562X	MG RESISTOR		
	R 127	NRSA02J-822X	MG RESISTOR		
	R 128	NRSA02J-472X	MG RESISTOR		
	R 129	NRSA02J-222X	MG RESISTOR		
	R 130	QRZ9005-680X	F.RESISTOR	68 1/0W	
	R 132	NRSA02J-393X	MG RESISTOR		
	R 133	NRSA02J-392X	MG RESISTOR		
	R 134	NRSA02J-102X	MG RESISTOR		
	R 140	NRSA02J-563X	MG RESISTOR		
	R 141	NRSA02J-102X	MG RESISTOR		
	R 142	NRSA02J-470X	MG RESISTOR		
	R 143	NRSA02J-562X	MG RESISTOR		
	R 144	NRSA02J-332X	MG RESISTOR		
	R 145	NRSA02J-103X	MG RESISTOR		
	R 146	NRSA02J-472X	MG RESISTOR		
	R 147	NRSA02J-332X	MG RESISTOR		
	R 150	NRSA02J-331X	MG RESISTOR		
	R 157	NRSA02J-272X	MG RESISTOR		
	R 158	NRSA02J-272X	MG RESISTOR		
	R 161	NRSA02J-102X	MG RESISTOR		
	R 162	NRSA02J-102X	MG RESISTOR		
	R 182	NRSA02J-103X	MG RESISTOR		
	R 183	NRSA02J-103X	MG RESISTOR		
	R 184	NRSA02J-103X	MG RESISTOR		
	R 191	NRSA02J-102X	MG RESISTOR		
	R 192	NRSA02J-474X	MG RESISTOR		
	R 193	NRSA02J-103X	MG RESISTOR		
	R 194	NRSA02J-103X	MG RESISTOR		
	RF101	QAU0119-001	FRONT END	FOR FTZ	
	T 111	QQR0871-001	COIL BLOCK		
	T 142	QQR0973-001	IFT		
	X 121	QAX0402-001	CRYSTAL		
	X 191	QAX0263-001Z	CRYSTAL		

Packing materials and accessories parts list

Block No. M 2 M M
Block No. M 3 M M



■ Parts list (Packing)

Block No. M2MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	LV30044-0D1A	CARTON BOX	1		
	P 2	LV20039-002A	PACKING PAD	1		
	P 3	LV20040-001A	PACKING PAD	1		
	P 7	QPC06507015P	POLY BAG	1		
	P 8	QPA02503505P	POLY BAG	1		
	P 9	LV32034-003A	SHEET	2		

■ Parts list (Accessories)

Block No. M3MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	LVT0396-006A	INSTRUCTIONS	1	SWE,FIN,DAN,GER,FRE,DUT	EN
		LVT0396-005A	INSTRUCTIONS	1	ENG,GER,FRE,DUT,SPA,ITA	E
	A 3	EWP503-001C	ANT.WIRE	1		
	A 4	QAL0204-001	AM LOOP ANT	1		
	A 6	RM-SRX7000R	REMOCON	1		
	A 7	----------	BATTERY	1		
	A 10	BT-54008-2	WARRANTY CARD	1		EN
		BT-54013-1	WARRANTY CARD	1		E